

BADGER STATE

Smoke Signals

For Radio Amateurs • By Radio Amateurs

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Vol. 22 No. 5 - 257th Consecutive Monthly Issue - Baraboo, Wisconsin - May 1991

Safe and Sound, Back on the Ground



Following their exit from the Space Shuttle Atlantis, the STS-37 all-Radio Amateur crew of astronauts look over their "home" for the prior six days. The crew launched an ultraviolet observatory, tested possible techniques to be used during construction of the U.S. Space Station "Freedom," and conducted another successful Shuttle Amateur Radio Experiment (SAREX). In this NASA photo are, left to right, are Mission Specialists Jerry Ross, N5SCW; Jay Apt, N5QWL; and Linda Godwin, N5RAX; Pilot Ken Cameron, KB5AWP; Dan Brandenstein (Chief of NASA's Astronaut Office at Johnson Space Center, and a Watertown, WI native); and Mission Commander Steve Nagel, N5RAW. Read more on page 21 of this issue.

FCC Gives First Impressions of Amateur "Power Audits"

The FCC, on April 5, released its preliminary conclusions from "power audits" conducted February 26 and 27.

The conclusions were based on visits to 209 amateur stations, according to the Commission. Most were selected at random, but 31 were chosen because "they were subjects of interference complaints (interference to home entertainment electronics devices - ed).

"The FCC made observations of the communications conducted at the power level usually used by the station, and then made similar observations with the power reduced by one-half or more," the Commission said in a press release.

The FCC noted the following "findings":

- 75 percent of the stations experienced no degradation in communications capability when the power was reduced by more than half;
- Lower power resulted in reduced interference to home electronic entertainment equipment in one-third of the cases;
- 70 percent of the amateur operators interviewed stated that their stations normally transmit with less than 200 watts of transmitter power;
- Approximately two-thirds of the stations reported to be the source of interference to HEE

(Please turn to page 10)

ELMER

By Rich Regent, K9GDF



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Swapfests and Other Social Events

SATURDAY, MAY 4, 1991. The Ozaukee Radio Club will sponsor its thirteenth annual Cedarburg Swapfest at the Circle-B Recreation Center, Highway 60 and County I. Contact ORC Swapfest, 11448 Laguna Drive, Mequon, WI 53092. (414) 242-4995

SUNDAY, MAY, 5, 1991. DeKalb Hamfest at Sandwich Fair Grounds, Sandwich, IL.

SATURDAY, MAY, 11, 1991. Lakeshore Swapfest, Manitowoc, WI. Held at the Manitowoc County Expo, intersection of Hwys 42-151 and I-43 on County Hwy R. Amateur Exams given. Contact: MANCORAD Radio Club, P.O. Box 204, Manitowoc, WI 54221-0204, or call "Red" at (414) 684-9097 (days) (414) 684-3733 (nights or weekends. (see also ad in last months BSSS.)

SATURDAY MAY 11, 1991. Tri County ARC annual hamfest. Held at the Jefferson County Fairgrounds Activity Center, Hwy. 18 West, Jefferson, WI. Contact: TCARC, W9MQB, 213 Frederick St. Fort Atkinson, WI 53538. (For more information, see the ad in this issue of BSSS.)

SUNDAY, JUNE 16, 1991, FATHERS DAY. 14TH ANNUAL CWRA Swapfest, Stevens Point, WI. University Center, UW Stevens Point. Tables and electrical power will be available for commercial

vendors. Groups are invited to request space for meetings, etc. Exams available, see testpoint. Contact: Art Wysocki, N9BCA, CWRA SWAPFEST Chairman, 3356 April Lane, Stevens Point, WI 54481. (Watch for flyer ad in May issue and see ad on back page.)

SATURDAY, JULY 6, 1991. South Milwaukee Swapfest. (See ad on last page this issue.)

SATURDAY, JULY 20, 1991. BOZO Hamfest, Village Lanes, Hwy. 57 north, Hilbert, WI. Contact: KN9P, W2104 Crosstown Rd., Hilbert, WI 54129.

SATURDAY, JULY 27, 1991. Annual Eau Claire Hamfest and Computer Expo., Eau Claire, WI. Contact: Liz Searing, N9EQR, 1129 McKinley Road, Eau Claire, WI 54701. (715) 834-1303. (see ad on last page and watch for flyer ad coming soon)

AUGUST 23-25, 1991. 1991 ARRL NATIONAL CONVENTION AND HAMFEST. Saginaw, Michigan. Contact: 1991 National ARRL Convention, P.O. Box 1783, Saginaw, Michigan.

SUNDAY, SEPTEMBER 8, 1991. BARS Hamfest and Computer Fair, Joliet, IL. Contact Bolingbrook Amateur Radio Society, P.O. Box 1009, Bolingbrook, IL 60440. (708) 759-7005.

SEPTEMBER 21-22, 1991. PEORIA SUPERFEST. Exposition Gardens, Peoria, IL. Contact: Peoria Area Amateur Radio Club, P.O. Box 3508, Peoria, IL 61612-3508.

SUNDAY, OCTOBER 13, 1991. KMRA Swapfest, Waukesha, WI. Contact: KMRA Swapfest, P.O. Box 276, Waukesha, WI 53187-0276

SUNDAY, NOVEMBER 3, 1990. The FOXCITIES

HAMFEST 91, will be held at the Starlite Club on Hwy. 55 North of Kaukauna. For information contact Don Baker, NB9J, 621 W. 7th St., Kaukauna, WI. 54130. (414) 766-3886.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Club Meetings

Due to space limitations, we cannot always carry the full listing of Wisconsin and area club meetings. Please see the April 1991 meetings column for the latest complete listing. There have been no changes since the last listing.

The Test Point

Amateur Radio examinations
scheduled in and around Wisconsin

The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area.

May 1, 1991	Milwaukee, WI (MRAC)
May 4, 1991	Cedarburg, WI (BE)
	Ozaukee RC Swapfest
May 11, 1991	Manitowoc, WI
May 20, 1991	Onalaska, WI
June 5, 1991	Milwaukee, WI (MRAC)
June 8, 1991	Dubuque, IA
June 8, 1991	Appleton, WI
June 16, 1991	Stevens Point, WI
June 29, 1991	Milwaukee, WI (MRAC)
July 27, 1991	Eau Claire, WI
August 10, 1991	Appleton, WI
September 4, 1991	Milwaukee, WI (MRAC)
September 7, 1991	Dubuque, IA
September 28, 1991	Milwaukee, WI (MRAC)
October 2, 1991	Milwaukee, WI (MRAC)
October 12, 1991	Eau Claire, WI
October 13, 1991	Waukesha (BE)
	KMRA Swapfest
October 26, 1991	Milwaukee, WI (MRAC)
November 2, 1991	Menomonie, WI
November 3, 1991	Kaukauna, WI
November 6, 1991	Milwaukee, WI (MRAC)
November 11, 1991	Onalaska, WI
November 30, 1991	Milwaukee, WI (MRAC)
December 7, 1991	Stevens Point, WI
December 4, 1991	Milwaukee, WI (MRAC)
December 7, 1991	Dubuque, IA
March 28, 1992	Menomonie, WI
November 7, 1992	Menomonie, WI

Monthly, First Sat. Racine, WI
(except January, July & August)
Monthly, Last Sat. Tomahawk, WI
(January thru October only)
Monthly, Third Sat. Loves Park, IL

Badger State Smoke Signals

Officers and Staff

Chairman: Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage WI 53901. Telephone (608) 742-3560.

Editor: Jim Romelfanger, 412½ Ash Street, Baraboo, WI 53913. No telephone.

Treasurer: Jim Decker, WB9UQT, P.O. Box 337, Baraboo, WI 53913-0337.

Subscriptions

1 Year	(12 issues)	\$9.75
2 Years	(24 issues)	\$18.00
3 Years	(36 issues)	\$26.00

Special club package reduced rates are available. For information, contact Ken Ebnetter, K9EN.

Where to Send It

Address changes and corrections should be sent to Ken Ebnetter, K9EN, address above.

Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger, K9ZZ, address above.

Inquiries about advertising should be directed to Ken Ebnetter, K9EN, address above.

Subscriptions should be sent, with check or money order, to Jim Decker, WB9UQT, address above.

When to Send It

The closing date for each issue is the first of the month for the next month's issue. (For example, the closing date for the May issue is April 1.) The only exception is for participating clubs. Participating clubs are requested to send their material no later than 7 days after the club's meeting. (For example, if your club meets on the 4th of the month, the material should be sent no later than the 11th of the month.) This material is to be sent to Jim Romelfanger, K9ZZ.

Conditions for Reprinting Material from BSSS

Permission is hereby granted to reprint articles from *Badger State Smoke Signals*, providing credit is given to the original author, publication in which the article first appeared, and to *Badger State Smoke Signals*. This credit is mandatory, and no material may be reprinted unless it is given. This newspaper is mailed from Portage, WI 53901. This newspaper is produced for Radio Amateurs by Radio Amateurs. It is all volunteer and non-profit.

Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other organization.

GENERAL RULES
FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 25¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$5.25 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE RADIO AMATEURS' CLUB
MRAC/VEC

1991 examination dates:

WEDNESDAY: May 1, June 5, September 4, October 2, November 6, and December 4, 1991

SATURDAY: June 29, September 28, October 26, and November 30, 1991.

WEDNESDAY DATES: 7:00 pm to 10:00 pm at Wauwatosa East High School, North 74th and Milwaukee Avenue. Enter through the southmost entrance on 74th Street. Go to room 256 on the 2nd floor. Please arrive promptly, so testing can be completed before 10:00 p.m.

SATURDAY DATES: 9:00 am to 12:00 noon at the Wauwatosa Savings and Loan, 7500 West State St. (Lower level) Please arrive promptly so testing can be completed by 12:00 noon.

Bring along your original license and two (2) good quality photocopies, plus two forms of identification, such a driver's license, etc. Also required are a pen and \$5.00 for the exam fee. WALK-INS are welcome. To register in advance, use a post card: print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, 1737 North 116th Street, Wauwatosa, WI 53226, or to Ed Seruga, KE9JJ, 3840 South 43rd Street #21, Milwaukee, WI 53220. Telephones: (414) 774-6999 or (414) 545-6299.

BADGER EXAMINERS (BE) - MILWAUKEE
May 4 - Ozaukee Swapfest (Cedarburg)
Oct. 13. - KMRA Swapfest (Waukesha)
Unless otherwise noted, examinations are

administered beginning at 1:00 p.m. to 3:30 p.m. at St. Nicholas Church basement, 5345 N. Green Bay Ave. (2 1/2 blocks south of Silver Spring), Milwaukee. Walk-ins are welcome. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take.,

your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WI9M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237.

MADISON, WISCONSIN (ARRL/VEC)

Exams will be held at Fire Station #6, on Badger Rd. (Just off South Park - Enter East door.) The test sessions will begin promptly at 8:00 a.m. Subsequent exams will occur in the fall of 1991. To be scheduled.

EAU CLAIRE, WISCONSIN

1991 dates: Jul. 27, & Oct. 12

Exams given at the UW/EC Maintenance/Central Stores Building, except for July 27, which will be at the 4-H Fairgrounds Hamfest site.

KAUKAUNA, WI

Held at the FOXCITIES HAMFEST 91, Starlite Club on Hwy. 55, North of Kaukauna. Exams begin at 9:00 a.m. Contact Larry, KD9IA at (414) 788-3823, or Don, NB9J at (414) 766-3886.

STEVENS POINT, WI

June 16, 1991

Held in conjunction with the CWRA annual swapfest at the UWSP University Center. Walk-ins accepted, but preregistration preferred. Contact: Joe Larson, N9JW at (715) 344-1182.

MENOMONIE, WI - ARRL/VEC

Saturdays: Nov. 2, 1991 and Mar. 28 and Nov. 7, 1992.

Contact: Jim Lay, NX9F, (715) 235-3998 (H); or (715) 232-1397 (O).

The Northern Wisconsin Radio Club administers exams from 9 to 11:30 a.m. at the Wisconsin Credit Union Building, Lower level conference room, 444 S. Broadway, Menomonie, WI. Use front entrance of building. Walk-ins are accepted only to extent of available exam materials. Contact: Dr. Tom King, WF9I, VE Team Liaison, 4817 Sierra Dr., Eau Claire, WI 54701. (715) 836-3980 or (715) 834-7777.

APPLETON, WI (ARRL/VEC)

June 8, and Aug. 11, 1991

Sponsored by the Fox Cities ARC. All exams are held at Madison Jr. High School, 2020 S. Carpenter St., Appleton, WI. Contact: KD9IA, (414) 788-3823

ONALASKA, WI

May 20, 1991 and November 11, 1991

Sponsored by the Riverland ARC. Held at the Onalaska Community Center, 515 Quincy St. All exams start at 7:00 pm. Preregistration recommended. Contact: Rick Williams KV9U, 524 Troy St., Onalaska, WI 54650. (608) 783-8028. or Dick Low, KOJYB, 1520 Nakomis Ave., La Crosse, WI 54603. (608) 784-9176 (After Apr. 5th.)

MANITOWOC, WI (ARRL/VEC)

May 11, 1991

Sponsored by the Fox Cities ARC. Exams are held at Silver Lake College, West Highway 151, Manitowoc, WI. Contact: KD9IA, (414) 788-3823

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Exams are given at 9:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted. Inquiries and registrations should be directed to William Firchow, Jr., NW9P, 1912 27th Street, Kenosha, WI 53140, telephone (414) 658-8390.

DUBUQUE, IOWA - ARRL/VEC

Exam dates for 1991 are: June 8, September 7, and December 7.

The Great River Amateur Radio Club VEs are now field stocked, which means retests can be given immediately.

Exams are held at 9:00 a.m. at the Central Fire Station, 9th and Central in Dubuque. Use the basement entrance on 9th Street. For more info, contact Mike Jozefowicz, NS0U, 2735 Hickory Hill, Dubuque IA 52001, or call Mike at (319) 582-8563. Talk-ins are on the 147.84/24 and 147.63/03 repeaters. -- (Thanks Art Evans, KA9KLZ)

TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Greg Garner, WA9W, 4088 Highway 51, Harshaw, WI 54529. Telephone (715) 453-7096.

LOVES PARK, IL

Third Saturday of every month. Northern Illinois Volunteer Examiners (DeVry VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL. Contact: Dennis G. Eksten, W9SS, 5006 N. Second St., Loves Park, IL 61111. (815) 877-6768.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules. Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN at the address shown on page 2.

FOR SALE: Colorful United States Stamps. 100 all different. \$1.00 postpaid. Richard Regent, K9GDF, 5003 South 26th St., Milwaukee, WI 53221.

WANTED: Xtals for the novice bands. To be used in homebrew equipment. Also want old ARRL VHF Handbook and FM & Repeaters Handbook. Bill Wood, KE9XQ. (608) 788-8571

Wisconsin Nets Association Ltd.

Bob Towns, N9IAI, Secretary • 413 Pine Street • Waupaca, WI 54981

Wisconsin Nets

Net	WNA	Freq.	UTC	CST	Mgr.
BWN	Yes	3984	1100	0600	W9AYK
BEN	Yes	3985	1700	1200	WB9ESM
WSBN	Yes	3985	2230	1730	K9UTQ
WNN	Yes	3723	2300	1800	KA9FVX
WSSN	Yes	3645	2330	1830	N9BDL
WIN/E	Yes	3662	0000	1900	WB9ICH
WIN/L	Yes	3662	0300	2200	W9NGP
NWTN	Yes	34/94	2330	1830	NS9Q
(Rhinelander area)					
6:30					
Net	No	01/61	2330	1830	KA9OMC
Gr. Bay	No	72/12	0145	2045	WB9NRK
(Green Bay area)					
ARES	No	4.65/5.25	0100	2000	
(South East/South Central Wisconsin)					
RACES	No	3993.5	1715	1215	WC9AAG
(USB Tuesday and Thursday)					
RACES	No	3993.5	1300	0800	WA9OAY
(LSB Sunday)					

Section Manager's Notes



Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221

Marshfield Area ARS and the Tomah Regional Repeater Group are two new affiliated ARRL clubs.

Green Bay Mike & Key Club renewed as ARRL Special Service Club, is putting together an ARRL VE team, and has assembled a media station at St. Norbert's.

West Allis RAC now meets at St. Peter's Episcopal Church on Lincoln Avenue.

Listen to *Newsline* on 146.67 MHz Sundays at 8:45 p.m., and Mondays at 9:30 p.m. for the latest Amateur Radio news. (I believe this on the 146.67 repeater in Milwaukee - BSSS Ed.)

New Dane County ARES Net meets at 8:30 p.m., per K9JVP.

On June 1st, the Wisconsin Chapter 55 of QCWA meets for a delicious dinner, delightful meeting, and interesting auction at the Lake Delton Fischer's Supper Club (south of Wisconsin Dells); social hour begins at 11 a.m.; guests and visitors are welcome.

Exams June 1 at Racine Red Cross Bldg.

June 5 Milwaukee RAC exams begin at 7 p.m. in the Wauwatosa East High School, contact W9JK or KE9JJ.

Net News and Gossip

Written and Edited by the Net Managers

Wisconsin Slow Speed Net (Glass Arm Report)

Lee G. Andreas, N9BDL, Net Manager
Route 1, 7600 Hwy. D East
Lake Tomahawk, WI 54529-9500

The Wisconsin Slow Speed Net is expanding. Not only are checkins on the increase, but traffic passed has also increased for the first quarter of 1991 when compared to the same period in 1990. There were 117 more checkins during the first three months of this year than in the January through March period of last year. Traffic showed an increase of 29 during the two comparison periods.

To top all that off, we now have three new members of WSSN. One is from Wisconsin, one is from Minnesota, and one is from South Dakota. Mike, N9JIY, from West Bend, WI, is joined by Mel, N0FOO, from Brainerd, MN, and Roger, N0HCR, from Sioux Falls, SD. Hopefully, KA9YON, Willa, of Rhinelander, will have her name added to the net roster by press time. Welcome to the newest members of the Wisconsin Slow Speed Net.

If you would like to join the illustrious list of members of this elite group of brass pounders, take a squint at the Glass Arm Report in the February

1991 issue of BSSS. Page four has all of the details. Future reports will also give you the necessary information on becoming a member.

Speaking of the last Glass Arm Report, there are a few doubters amongst the millions of readers of this publication who wondered about the veracity of Sir Slim of Baghdad and his Camel. To those few, I now have proudly displayed on my shack wall a photograph clipped from a major newspaper in southeastern Wisconsin depicting Sir Slim and his faithful Camel. For those who skipped school the day your teacher described Wisconsin and neighboring Beluchistan, shame on you. Thanks to an anonymous source in Oconomowoc for that picture. To catch a peek of the photo in question, please attend the June meeting of the WNA at Stevens Point. I will have it on display there.

That brings me to the final point of this quarterly report. Join the fun (or madness - your choice) daily at 6:30 p.m. on 3.645 MHz. Better yet, join us each evening *and* attend the Wisconsin Nets Association meeting in June at the Stevens Point Hamfest and meet some of those responsible for this page in Hamdom's favorite monthly newspaper.

73.

(Please turn to page 19)

June 9 is the Ride for the Arts (formerly Uecker's ride) with communications by Milwaukee ARES.

June 8 Fox Cities ARC exams in Appleton's Madison H.S.

CQ Tuesday amateurs meet around noon on June 11 (and every second Tuesday of the month) at the Downtowner Motel in Green Bay.

June 13 is the Western Days Parade, one of the largest horse-drawn parades in the U.S., with communications provided by the West Allis RAC.

June 16 Central Wisconsin RA will hold its Swapfest at U.W. Center in Stevens Point, exams available, and Wisconsin Nets Association meeting to be held at 11:00 a.m. CWRA will be helping celebrate the Auburn, Washington, Centennial on June 16.

Exams June 22 by MRAC at Wauwatosa Savings and Loan.

June 22 Milwaukee ARES will provide communications for City of Festivals Parade, with this

year's theme an official welcome home for Persian Gulf veterans and salute to all veterans.

On June 22 and 23, you can earn 100 bonus Field Day points for sending a proper message to me or our Section Emergency Coordinator, WB9SMM.

Exams June 27 in Eau Claire.

KA9OIL, Ham of the Year, reports than on June 28 the Racine Mergers Club will hold a hunt.

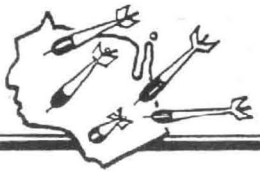
KA9JDE packet digipeater moved to commercial tower with antenna to the 250-foot level located near Beaver Dam.

W9YCV has 243 confirmed countries.

Thanks to N9IAI for work as Badger Emergency Net manager; welcome to new Manager WB9ESM.

Sorry to report Silent Keys W9HHJ and WB9JYR.

Thought of the month: *People will occasionally stumble over the truth, but most of the time they will pick themselves up and continue on.*



HERE and THERE

MTC SPECIAL EVENT STATION CANCELLED: The M-W Chapter of the Morse Telegraph Club has cancelled its plans to operate Special Event Station AD9E on May 25 and 26 at the Mid-Continent Railroad Museum at North Freedom.

The members will be at the museum to conduct telegraphy demonstrations.

NEWSLETTER FOR SIX-METER DXERS: *The 50 MHz DX Bulletin* is a newsletter published 24 times per year as a service to 50 MHz enthusiasts worldwide. It's published by Harry Schools, KA3B. A sample copy may be had by sending \$1.00 to Harry at 1606 S. Newkirk Street, Philadelphia, PA 19145. Subscriptions are \$20 per year in the U.S. and Canada, and foreign subs (sent by air mail) are \$25. The issue which was sent along to us is chock full of excellent info about six-meter DX and DX-pedition information from all around the world. If you are a six-meter fan, this looks a "must-have" to help you maximize your fun and your 6 meter DX!

- Thanks Tony Musero, K3UKW

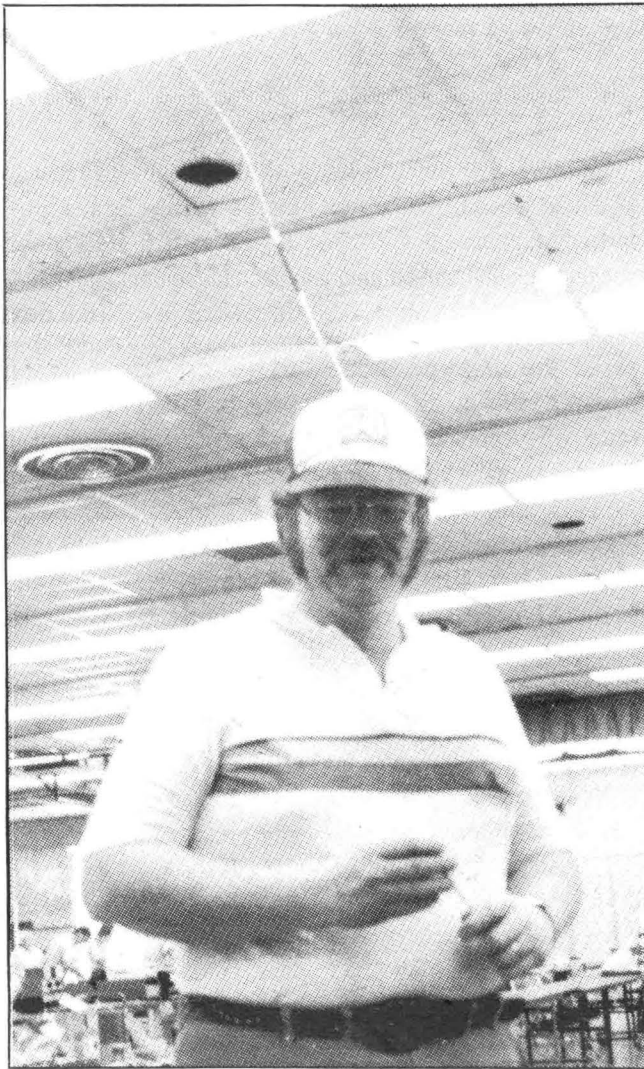
ATTENTION SWAPFEST ADVERTISERS: Postal regulations prohibit advertising "door prizes" through the mail. This means that if we publish an ad for your 'fest, and that ad mentions door prizes, we must eliminate any such reference(s) from your ad.

BALLOON TO CARRY 2-METER REPEATER:

A balloon will be launched from the Hillsboro, WI, area, carrying a 2-meter repeater with output on 147.48 MHz. Target launch date is May 4, 1991, at about 8 a.m. The input frequency will be announced on the output frequency. Expected coverage area is about 400 miles. Joe Mayenschein, WB9SBD, is coordinating this experiment, which apparently in some way involves the U.S. Naval Academy. An HF net will also operate during the experiment on 7.155 MHz.

- Gleaned from a bulletin on the WD9ESU packet BBS

BADGER STATE SMOKE SIGNALS was judged "Excellent" in the just-concluded Amateur Radio



R.P. PHONE HOME? Looking somewhat extra-terrestrial in his antenna cap, Rick Plouffe, of Baraboo, enjoyed the Madison Swapfest and Computer Fair, held April 7 at the Dane County Expo Center in Madison. A swapfest review and more swapfest photos begin on page 8 of this issue.

News Service 1990 Publications Contest. This is the middle rating, the lowest being "Good," and the highest being "Superior."

The Amateur Radio News Service publishes a monthly bulletin, which provides editors of Amateur Radio club newspapers with production ideas and help, provides editors a means of exchanging and sharing information, and in general assists editors in producing the best possible club newsletters. Membership in ARNS, which includes a subscription to the *monthly Amateur Radio News Service Bulletin*, costs \$6.00 per year. To join ARNS, or for more

Ozaukee Post-Everything Party

The Ozaukee Radio Club Post-Everything Party was held March 16th, with 34 people attending to have a good time and a great meal.

Grab bag prizes included scraps from select junk boxes, electronics, broken radios, many parts, and even some worthless goodies. This year, WB9LNL was awarded as Ham of the Year. W9BTN, Sandy, was awarded with the old sad and sick-looking stuffed turkey, a tradition for eight years; unfortunately, Sandy wasn't there. A brass plaque on the turkey lists calls of past losers, er, winners. One good rule ORC has is that members can only get the turkey award once in a lifetime.

It is now called the "Post-Everything Party" due to a little history. The club first had a Christmas Party, but everyone was so busy during that time of the year. So, the group tried a Post-Christmas, Pre-New Year Party. More busy people suggested it be held later. Next, it became the Post-New Year's, then Post-Valentine's Day, but Pre-St. Patrick's Day Party. Others suggested having it in March, after St. Patrick's Day.

In over 15 years of modifications, they finally said "Let's call it the Post-Everything Party." As many as 80 people have attended in certain years and the future looks good.... but, maybe just a little later.... next time?

- Richard Regent, K9GDF

information, write ARNS Secretary Pam Myers, N8IAK, 510 West Harrison, Alliance, Ohio 44601.

- K9ZZ

Coming in June BSSS

1991 Wisconsin QSO Party Results

Badger State Smoke Signals

Subscription Form • Regular Individual Subscription Rates

1 year: \$9.75 • 2 years: \$18.00 (save \$1.50) • 3 years: \$26.00 (save \$3.25)

PLEASE PRINT!

Name: _____ Call Sign (if any): _____

Address: _____ City: _____ State: _____ ZIP: _____

☐ 1 year ☐ 2 years ☐ 3 years

☐ New

☐ Renewal

Send this form, with your check or money order, to Jim Decker, WB9UQT, Treasurer, P.O. Box 337, Baraboo, WI 53913. **Please do not send cash!**

9105

Badger State Smoke Signals



IF YOU'RE THAT BORED WITH HAMFESTS, WHY DIDN'T YOU GO TO MYRTLE'S BABY SHOWER?

Amateur Radio Operation at the Special Olympics

By Joe Larson, N9JW
(Central WI Radio Amateurs at UWSP)
644 Portage Street
Stevens Point, WI 54481

The Wisconsin Special Olympics summer games were held in Stevens Point on a sunny weekend, June 8, 9, 10, 1990. Amateur Radio operators from Stevens Point, Wausau, Marshfield, Wisconsin Rapids and other surrounding communities were on hand to help out. Some took the day off from work, others had it off already. Some came only in the mornings, some in the afternoons, some came all day every day.

Why do it? Lots of reasons. Perform a community service. It feels good. Help out people who are very grateful. A day of fun in the sun. A chance to save a life in a medical emergency. To drive a golf cart. To feel important for a while. But whatever the reason, if you do it once, you'll be back for more.

Wisconsin Special Olympics is a statewide nonprofit organization with the goal of benefiting those with mental retardation. Those served are about half and half adults and children. There were about 2,500 athletes at the 1990 summer games, with families and coaches numbering an additional 1,000. With a big group like that, Amateur VHF communication works great to keep the organizers in touch with each other and help them keep the games going smoothly.

One job you might get is to be a shadow. You will follow a designated VIP around, and provide radio communications for him or her. These people are usually incredibly busy trying to organize their part of the games. For example, the Events coordinator may need to talk to the person setting up the victory dance, yet they are three football fields apart, and they need to talk to each other RIGHT NOW! That's what you are there for. These people are always on the go, so be ready for a lot of walking.

If it would work better, let them take the mike and talk. But as you follow them around and get to know what is going on, you can probably answer some of the questions yourself ("Where is the shot for the Shot Put event?"). If you're sure you know what you are talking about, go ahead and answer the incoming questions. You can save a lot of time by helping out, by summarizing for them, by being their eyes and ears. But the VIP's are all very nice people; let them handle anything you aren't positive about.

Strictly optional, of course, but if you are siezed with a sudden urge to lift and carry or dig or pound to help out, you will NOT be chastised! Setting up for the Olympics takes a lot of work, and the more helpers the better. Remember that most of the people there doing all the work are unpaid volunteers like you. They appreciate any help you can give.

Another assignment is for Rovers. These Hams have no fixed location, but are supposed to walk around and be visible. Then the athletes and coaches and parents can latch on to you and get their prob-

lems "aired".

People will tell you many things, including things you can do nothing about. Don't worry, just report it to Tournament Central. If it's really important, someone will notice and handle it.

Many times you will be in a loud area, like next to a PA speaker or inside the victory dance. Try to resist the urge to shout into your microphone! It doesn't help at all. Instead, try to talk in a normal tone of voice and, if that doesn't work, find a quieter spot.

How should you act toward the athletes? Some people are uncomfortable with retarded adults and children but, like many other things, exposure and knowledge will cure the jitters. Just be yourself. Athletes don't get into the Special Olympics by being healthy and normal, but some of them can bench press you! They trained for months or years to get there, and are working at the top of their form. They deserve the respect you would show to any other athlete.

Athletes often want to show off medals. They put a lot of hard work into their sport, and they're excited about being a winner.

Get familiar with their wrist bands or other identification systems. Go to the volunteer orientation meeting. It'll help you feel less lost the first time out.

Tournament Central has a cross references list and can look up the ID information and tell you who is staying where. Tournament Central is the base station, located near the registration area and handy to a telephone. This amateur operator acts as a net control as necessary; most of the time, formal net operations are not needed but, when things get hectic, a traffic cop can keep things moving smoothly. Tournament Central also keeps track of who is shadowing whom, if any athletes are currently lost or found, and many other details. Tournament Central also makes any needed phone calls, for example, to campus Building Services to round up a few more trash cans for the concession area.

Most of the operation is on the local 146.670 repeater. The Olympics venues are spread out too far for simplex and the organizers could be anywhere on campus, even in town. The autopatch is not used. Instead, the repeater stays open for Olympics traffic and Tournament Central makes all the phone calls.

A few words about tactical call signs. The FCC recognizes the usefulness of these ("Tournament Central", "Medical Tent", etc.) and assures us they are legal to use. Just mention your callsign every ten minutes, and you can call yourself Bugs Bunny!

Amateurs assigned to the Medical Tent stay with the team of doctors when they go to medical emergencies. The medical professionals should never be out of radio contact in case a more severe emergency pops up. They also might need to call for an ambulance. If you faint at the sight of blood you might not want to volunteer for this assignment! But most cases are not that serious; we get more heat exhaustion than anything else.

The amateur assigned to the track PA system will be busy relaying announcements, lost and found, and many other items to the track announcer. Be patient and speak clearly when you talk to him; He's probably getting heavy QRM from the PA system.

If you're assigned to work at the opening or closing ceremonies, use your better judgement. Find a place out of sight but still nearby. After all, it's not your ceremony.

Speaker/mikes are invaluable, especially in noisy locations. Sunscreen lotions, umbrellas, and hats for sun protection will all come in handy. Extra battery packs, too!

By the way, there is a difference between a "lost" and a "found" athlete. When an athlete comes to you looking for the rest of their unit, they are "found" and you should get the word out to locate their coach. If a parent or coach approaches you looking for an athlete, that athlete is "lost".

Is it legal to take a free T-shirt when all the other volunteers are getting one? The FCC agrees that hats or T-shirts of no significant value which are used to identify helpers in a public service situation like this are acceptable. Also, if you are working in a non-amateur capacity (remember the lifting and pounding?) you could justify the T-shirt for that assistance. But whatever you think about it, if you feel it would not be ethical, do not take one.

One of the hardest workers over the past several years has been Paul Nelles, K9DB. He's been doing such a yeoman job organizing, finding people for jobs, talking to many groups. He's done so well that he's been appointed Support Services Coordinator, which would qualify him for a radio shadow. Pity poor Paul: He has to be his own shadow!

What if you want to help, but just can't make it that weekend? If you can, let the organizers know that you have a handie-talkie available. They often have more amateurs than radios. If not, a spare or two is nice to have around at any time.

It's a good idea to register ahead of time so the organizers know how many hams are available. But if you don't register and your plans change, don't feel bad about just showing up out of the blue. There's always more to do than people to do it.

This has been a picture of operating during the Special Olympics. Come on down and join us next year for the games on June 27th, 28th and 29th, 1991. You'll be glad you did!

Volunteers should contact Frank Guth, W9BCC, 1632 Ellis Street, Stevens Point, WI 54481. If you prefer, please call Frank at (715) 344-2566. ■

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Amateurs' "Kuwait Connection" is Revealed

Amateurs everywhere now can know the full story of a Kuwaiti amateur who was on the air during the occupation of his country, sending AMTOR messages to the outside world.

On March 21, Abdul Jabbar Marafi, 9K2DZ, gave the American Radio Relay League (ARRL) his consent to reveal his identity, and to publish his story; a major article about the "Kuwait Connection" will appear in May *QST*. What follows is a greatly abbreviated version of that article.

9K2DZ, usually signing another of his call signs - A92ET - or no call sign at all, almost daily reported from Kuwait.

At first the traffic was health and welfare messages, and Marafi turned immediately to his Amateur Radio friends, on the APLINK network.

"AMTOR sounds like a cricket," Frank Moore, WA1URA, told the U.S. Department of State when he began faxing them copies of Marafi's missives from Kuwait City. "The transmitters pulsate on and off and are much more difficult to locate with a direction finder. It also means that one receives almost perfect copy," Moore said.

Marafi's APLINK colleagues were quick to recognize the need to protect 9K2DZ by keeping the traffic quiet (at one time Iraqi troops were living in the house next to Marafi's, Clark Constant, W9CD, said).

The traffic was not a total secret; as hams happened upon the APLINK frequencies bits and pieces of messages with Arabic names would appear on their screens.

Meanwhile, aboard the USS John F. Kennedy in the Red Sea, Navy First Class Petty Officer Scott Ward, N5DST, had long been using AMTOR, and APLINK, to handle messages for the more than 5,000 Navy personnel aboard.

Following the invasion of Kuwait, Ward's official Navy channels were given over entirely to traffic more important than health and welfare messages, leaving Amateur Radio - and APLINK - as his only medium for messages home.

It wasn't long before N5DST/MM ran across the Kuwait traffic. Ward was immediately invited to join the effort, in part since his location seemed perfect for a short hop to Kuwait.

"I would always forward the Kuwait messages to WA1URA, their primary destination," Ward said, "knowing they would get to State if necessary. Then they would go up the chain of command aboard ship, through officers in touch with Central Command in Riyadh."

Bob Foster, WB7QWG/9, has been handling Kennedy messages for Ward long before the ship's deployment to Operation Desert Shield.

"At first, we discouraged Abdul from transmitting," Foster says. "Although we all were very curious, we also feared for his safety."

For N5DST/MM, the spectre of shipboard radio silence always loomed, as when YI1BGD, at the Radio Club of Baghdad, briefly accessed Ward's BBS and also attempted to access those of APLINK operators John Troost (TG9VT), and OD5NG.

By now Abdul Jabbar Marafi was beginning to feel the strain, as were those in the network.

"Abdul, W9CD, and I became concerned," Troost says, "that the Iraqis might be listening in and that we were giving away information they could use to repress Kuwaiti nationals, not only in Kuwait, but also in the U.S.A., so most of that [health and welfare] traffic was stopped."

Other Kuwaitis around the world were picking up the slack, as they became active on AMTOR and joined the system to handle "mail" between each other.

At least two 9K2 stations were active from Switzerland, and additional links appeared in Muscat and the United Arab Emirates, to where many Kuwaitis had fled.

It was also feared that Marafi had been compromised by his "discovery" by YI1BGD in Baghdad.

But "there is no reason to believe," Moore decided, "that the YI station compromised our friend. We have excluded him from our computers."

We also ask 'special questions' to our friend so he can give us a sign if he were in trouble and that has not happened."

"It was about October," Troost says, "that the Iraqis started to pay more attention to the old Amateur Radio operators in Kuwait, and interrogated all the hams. [Following the Iraqis' visit].... all Marafi's operating was done behind the false wall in his basement."

Today, 9K2DZ is active almost daily, on APLINK; now doing what hams ordinarily do.... talking with his friends.

Abdul Jabbar Marafi, 9K2DZ, is part of an extended merchant family known as the "Sultans," according to the *Wall Street Journal*. He is described by family members as a businessman. He has been licensed since 1973, and also holds the call signs A92ET and SI1DZ in Egypt, where he owns a home.

Marafi, a graduate of Cairo University, worked in the Kuwaiti Cable and Wireless division from 1953 to 1956, then in the Ministry of Telecommunications until 1978.

Marafi provided assistance right to the end, Moore said. The CBS News crew that beat the first contingent of U.S. Marines to Kuwait City was grateful when Marafi arranged to find an apartment for crew members.

Following the liberation of Kuwait, portions of this story were released to the press - including the ARRL - on March 4. News stories appeared in *The ARRL Letter* and in some newspapers, most of them heeding the embargo on identifying 9K2DZ or mentioning Amateur Radio. On March 21, Marafi himself lifted that embargo at the League's request.

- By James D. Cain, K1TN, in
The ARRL Letter, 4/4/91

Published by the American
Radio Relay League, Newington, CT

Amateur Radio News Briefs

- The FCC advises that U.S. military personnel whose Certificate of Successful Completion (CSCE) expired while they served in the Persian Gulf may ask their volunteer examiners to apply for a waiver of FCC Rules Section 97.505(a)(3). Such requests for waivers will be considered on a case-by-case basis, says the FCC.

- On April 1, W1AW voice bulletins were moved up 15 minutes, to 45 minutes past the hour. The complete W1AW schedule appeared on page 87 of April *QST*.

- Field checking of QSL cards for the DXCC award has *not* begun, and no start date has been set. ARRL's DXCC Branch continues to receive questions from DXers who are confused about when the program will be implemented. For now, all new DXCC applications and endorsements must be submitted to ARRL Headquarters.

- Robert N. Williams, N3IFY, of Annapolis, MD, has received the first code-free Amateur Radio license. His new Technician Class license was issued by the Federal Communications Commission in mid-March. The historic new code-free license class became effective February 14. Williams took his examination before volunteer examiners of the Laurel (MD) Radio Club.

In the first two weeks of the new license class, the FCC received 313 applications for code-free licenses, according to the Commission.

FCC-ISSUED CALL SIGN UPDATE: The following is a list of the FCC's most recently issued call signs (as of March, 1991).

District	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
0	AA0DU	KF0PY	N0NBL	KB0IMG
1	WQ1G	KC1ZT	N1INM	KA1YIH
2	AA2DQ	KE2ZX	N2LUS	KB2MJZ
3	WK3I	KD3WA	N3IXS	KA3YNP
4	AC4DL	KN4XB	**	KC4WKA
5	AA5XE	KI5NX	N5SFY	KB5OZX
6	AB6BI	KK6XE	**	KC6SFQ
7	AA7HS	KG7NL	N7QKP	KB7MVZ
8	AA8DF	KF8LW	N8NNB	KB8LXY
9	WZ9I	KF9BW	N9KQN	KB9GIH
Hawaii	**	AH6LA	NH6YI	WH6CLR
Alaska	**	AL7MV	NL7WI	WL7CBG
Puerto Rico	**	KP4RR	**	WP4JWL

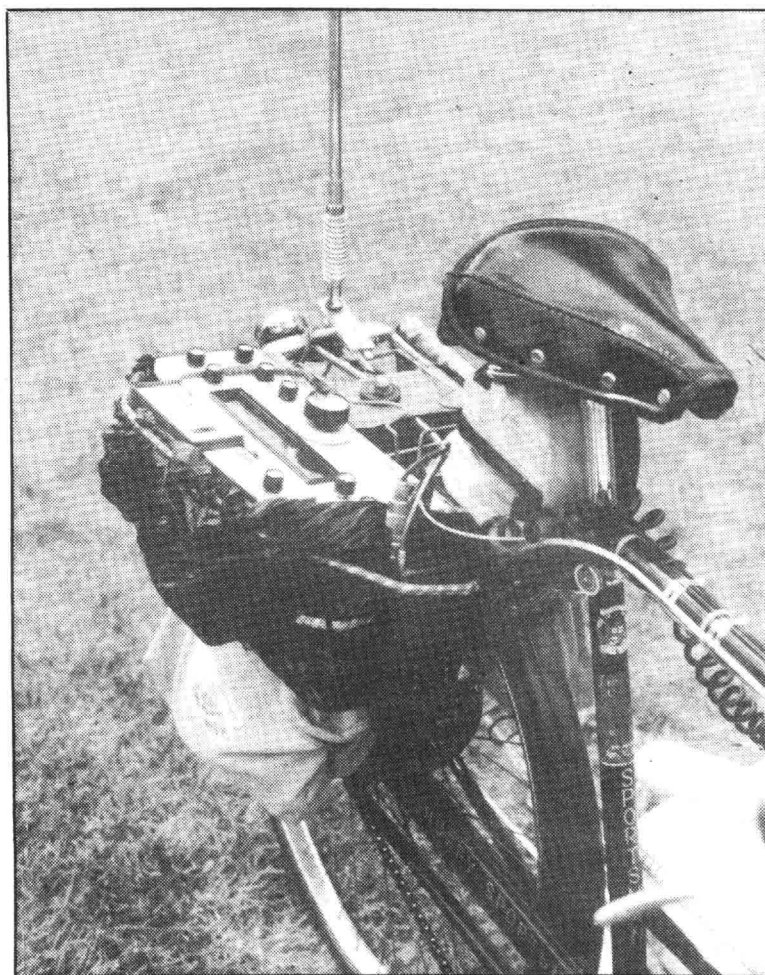
** All call signs in this group have been issued in this area.

- *The ARRL Letter*, April 4, 1991

WB9GIE/Self-Propelled Mobile: Part 2



In the February, 1991 issue of *Badger State Smoke Signals*, we published a story, written by Rich Regent, K9GDF, about Elroy Shelley, WB9GIE, who operates low power mobile from his bicycle. His experiences have been many and interesting, and he has worked some rather remarkable DX with his unusual mobile station. Elroy sent along his QSL card, which is reproduced above. He also sent a photo (at right), which shows his mobile station in excellent detail. At the time the article in our February issue was written, Elroy had worked all states and 67 countries. It's probably a safe bet that his country total has increased since then. Keep an ear open for Elroy, and you may get a QSL card like the one above! □



Madison Swapfest and Computer Fair Review

By Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221

April seventh weather is great for a trip to the Madison Swapfest, held inside the Dane County Expo Center Forum Building. We arrive about 7:45 a.m. and find plenty of parking. I'll bet some folks forgot to set their clocks ahead one hour, or maybe they carpooled to save on the \$2.75 County parking fee. Sellers are admitted in one of the off-center front doors before the opening time of 8 a.m. Getting our hand stamped and then admitted is quick and orderly. A line of anxious amateurs wait at the main door, chatting and enjoying the early morning air.

Over fifty Madison Area Repeater Association members are volunteering to plan, organize, and direct the Swapfest. Talk-in is on 147.15 MHz. All 290 tables are sold out, so we are thankful the MARA had reserved special tables for the League. It is 8 a.m., and crowds enter. Our Central Division Director, Ed Metzger, W9PRN, and my wife Barb, N9DIJ, help at the League table, answering questions, distributing free handouts, and getting new ARRL members. Fortunately, the BSSS gang is at the next table, so they can answer questions about club meetings, license classes, and tests.

The most popular questions are about the new no-code Technician license. I had prepared a handout, which describes the features of the Novice,

no-code Tech, and old Tech classes of licenses to give out to supplement my answers. *ARRL Technician Manuals* are soon sold out by all sellers. KE9YB, of Wisconsin Rapids, said he heard that only 1 out of 18 in a recent amateur class were interested in the no-code Tech, so the response may be picking up speed here today.

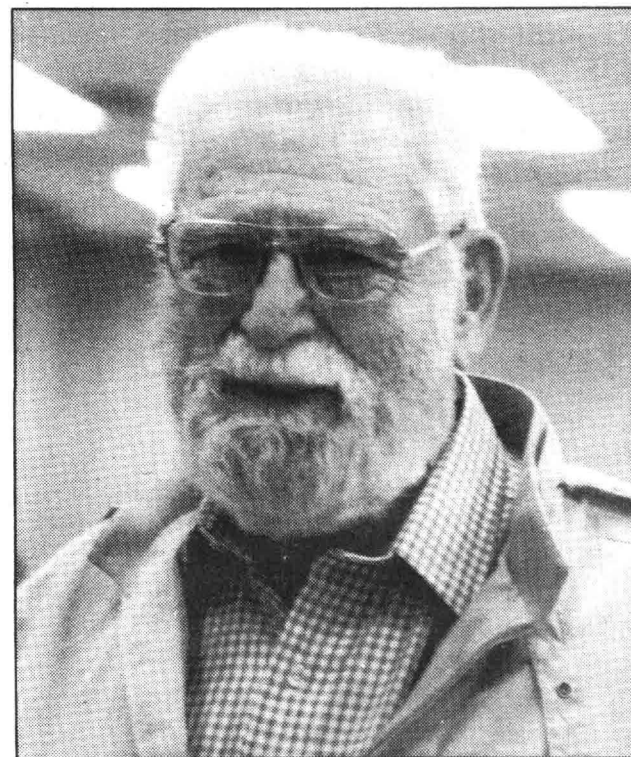
There are plenty of kind people who stop by to say hello and shake hands. I have trouble talking because of a touch of laryngitis.

The delicious sandwiches, donuts, rolls, coffee, pop, and milk served nearby attract many hungry swapfesters. Rows of white tables and chairs are soon filled with amateurs who rest and reminisce.

The double-door men's bathroom confuses some trying to get in or out; one fellow said he was stuck there since last year, and facilities seem a bit crowded. I'm told the women's room was adequate.

Throughout the building, there is electronic equipment and components for hams, computer enthusiasts, and experimenters. Plenty of commercial dealers offer a wide selection of new and used equipment. There is a lot of old junk available at reasonable prices. Oldtimer KA9YQP (pictured at right), interested in Amateur Radio since the wireless days, looks over some rigs and says, "They're so old, I recognize 'em!"

Sometimes answers to questions come to me after people are out of range. Like the fellow who asked about the no-code Tech, he had heard privileges started at 50 MHz and above. I told him I



Baraboo's famous and genial nanogenarian Radio Amateur, Harold Reif, KA9YQP

thought the rules said above 30 MHz. Actually, we are both right, since I don't recall any amateur band between 30 and 50 MHz anyway. Others asked for Repeater Directories, which won't be available until the Dayton HamVention®.

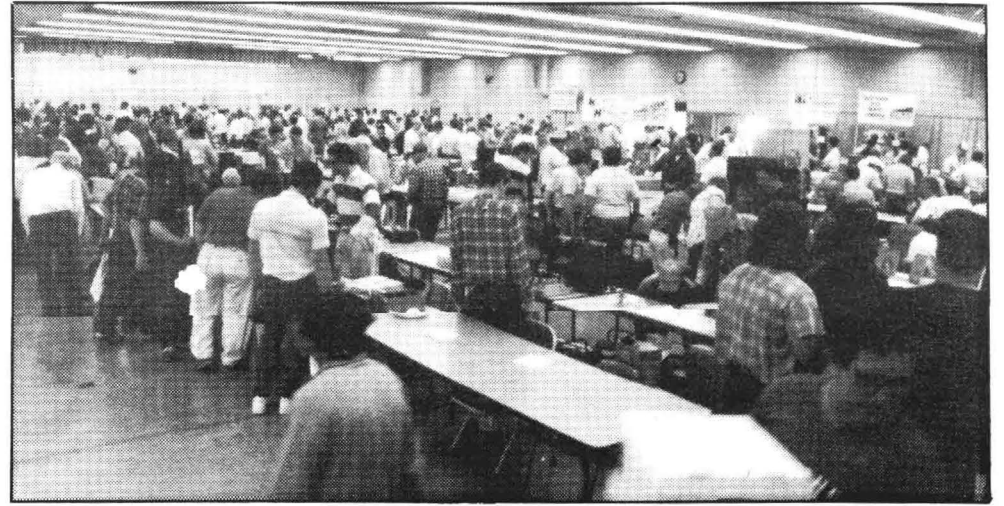
Jim Waldorf, KB9AQQ, MARA's President, worried about possible low attendance because of the Kansas City Convention held on the same weekend, estimates attendance at 2,500. There are only a few empty tables, probably from sellers who had a sudden change in plans.

Finally, I get to leave the League table to look around at the other sellers. I realized then that the free Wisconsin repeater lists from WAR, which everyone was asking about, were available just two tables away! (If you missed getting one at the 'fest, you got one with this issue of BSSS. We publish the list every May and November. - Editor)

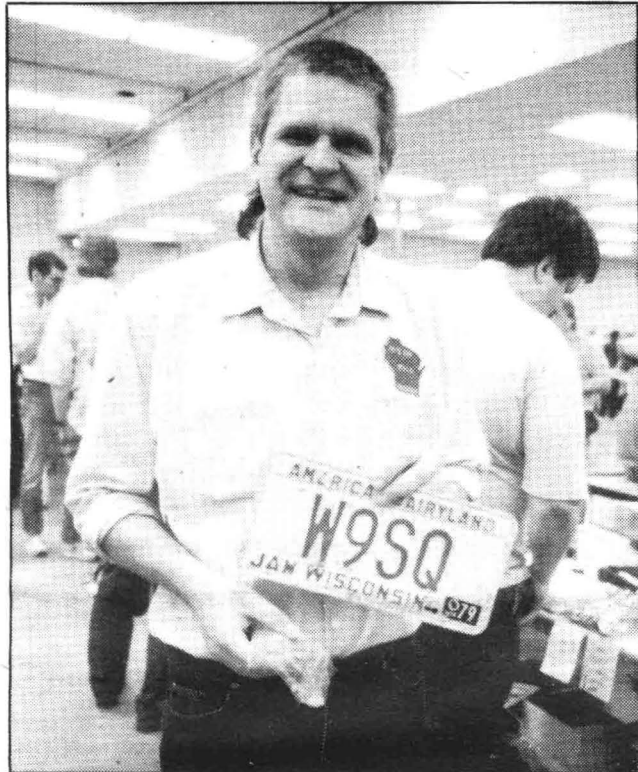
By 1 p.m., activities were quieting down. Say, longer tables packed away materials for another day and thanked the MARA for making our visit so pleasant. □

The photos of the Madison Swapfest were taken by the BSSS editor. Special thanks to Iona Niemeyer of Portage for the use of her camera. More MARA Swapfest photos are on the next page.

- K9ZZ



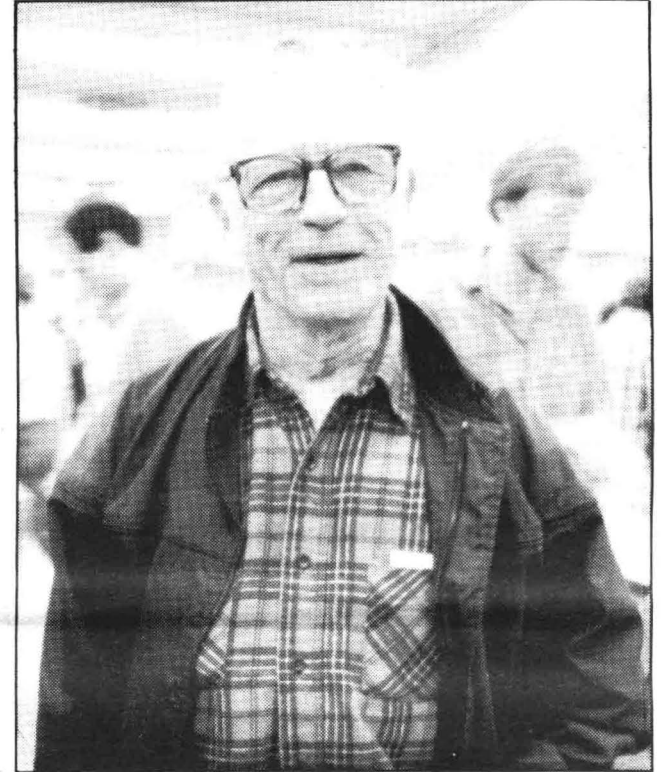
MARA President Jim Waldorf, KB9AQQ, estimated total Madison Swapfest attendance at 2,500.



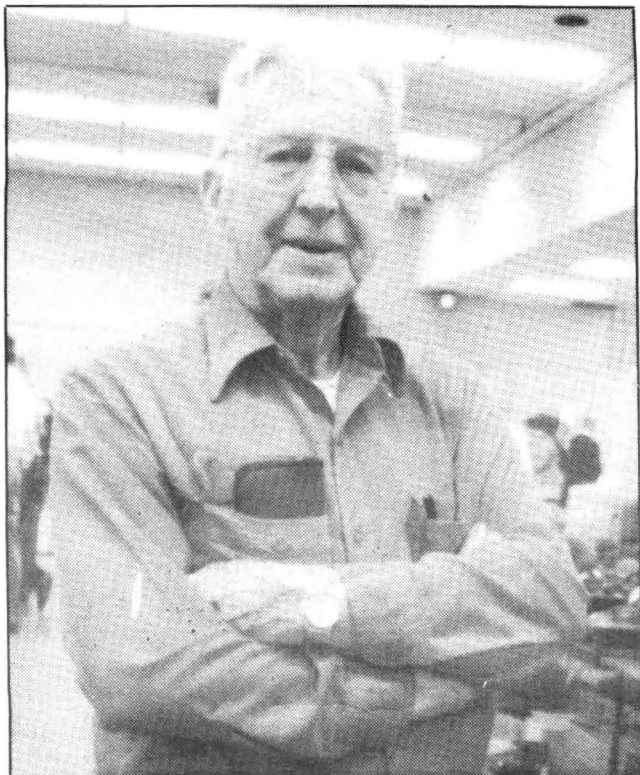
Pete Erk, W9SQ, of Madison, displays one of his call sign license plates.



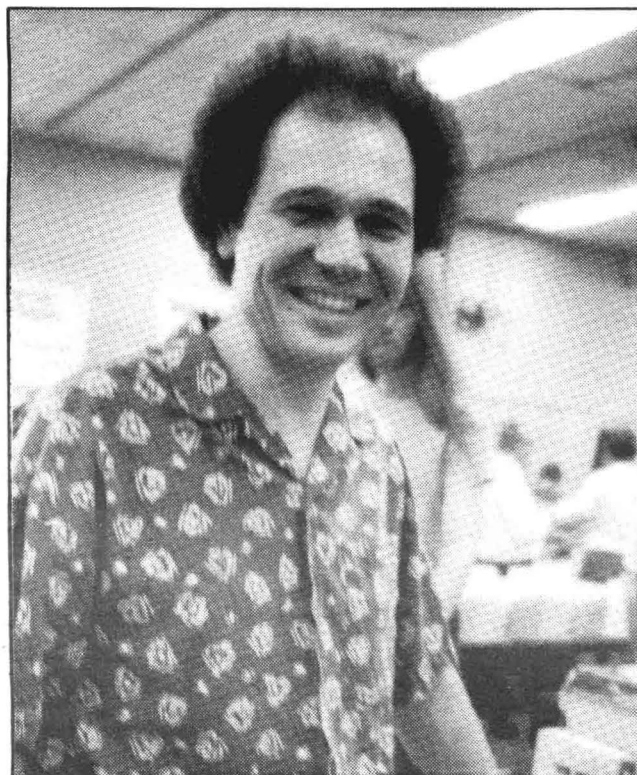
Dick Burton, N9BAF, of Madison is the very capable editor of *The Feedline* for the Four Lakes ARC.



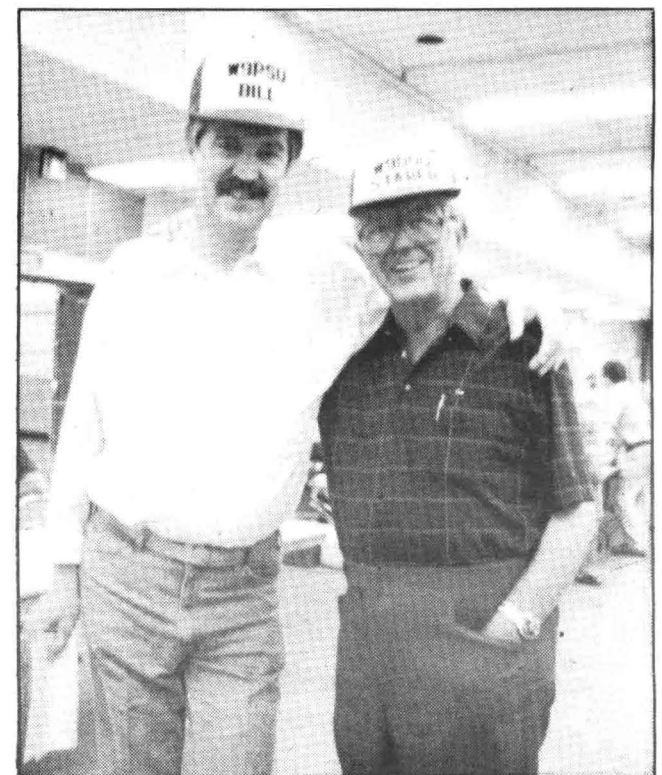
The Manitowoc contingent included the ever-genial Erv Busse, W9OMO.



Recently upgraded Bob Warner, WB9UQO, of Lodi, is active on packet radio.



Frank Olah, WA9 Violet Zebra Paint, hails from Sauk City.



Dad Staber Reese, W9DOO (right) enjoyed the 'fest with his son Bill, W9PSU (left).



Terry Ludwig, N9JUJ, Oconomowoc (left), and Rob Hummel, WA9ZTY, of Marshall, were enjoying a chat when the photographer caused *conversationus interruptus* to take this picture. Rob is demonstrating the meaning of short wave.



Scott Neader, KA9FOX, Onalaska, WI; Mike Tessmer, N0BSH, of La Crosse; and Bruce Herrick, K1TMM, swapped stories at the 'fest. Bruce is active in the Society of Midwest Contesters (SMC).

- Photos by Jim Romelfanger, K9ZZ

Preliminary Conclusions Released in Amateur "Power Audits"

(Continued from front page)

were transmitting with 100 watts or less.

The FCC press release noted the following conclusions:

- Most amateur stations are not operating at minimum power as required (by Section 97.313(a));
- Reduced power can alleviate significant reception interference problems without degradation in communications capabilities;

• In addition to reducing transmitter power, other remedies such as transmitter or receiver filtering may be required to eliminate interference.

The amateur community now awaits details of the methodology of the "power audit." The FCC has said it intends to release the study at a later date.

Commenting on the Commission's news release, ARRL Executive Vice President David Sumner, K1ZZ, said: "It is interesting to note that according to the Commission's own figures, amateur stations operating at 100 watts or less are as likely to be a 'source' of interference as higher-powered stations, and reducing power even further did not eliminate the interference in two-thirds of the cases. Anyone arguing for a reduction in amateur transmitter power limits will find no support in this study."

- The ARRL Letter, 4/18/91

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Ohio Ham Charged with Making Fake Distress Calls

James A. Haas, WT8Q, of Athens, Ohio, on April 5 was arrested and charged with making false distress calls on police frequencies in Prince William County, Virginia, according to *The Washington Post*. Haas, a high school physical education teacher, was released on \$100,000 personal bond on April 8.

According to the *Post*, Haas was in the Washington area to "attend an amateur radio conference" (the Timonium [Maryland] Hamfest was that weekend).

On April 9, the Associated Press reported that Haas also is under suspicion for making similar distress calls in four communities in Kentucky and three in Ohio, all of which have reported such incidents in the past year-and-a-half.

If convicted, Haas could face five years' imprisonment and fines of up to a quarter of a million dollars.

Phone calls to his home have not been returned.

- The ARRL Letter, April 18, 1991

Articles and Photos Welcome!

Badger State Smoke Signals is always interested in articles, stories, and photos about Amateur Radio and radio amateurs. The list of hobby-related topics for stories is almost unlimited, with so many hams doing so many interesting things. Send your material to the editor. His address is on page 2 and is published in the magazine.



John's Book Shelf

By John W. Frank, WB9TQG
P.O. Box 5113
Madison, WI 53705

QRP Classics

This collection of QRP (low power) projects from *QST* and the *ARRL Handbook* belongs on every QRP enthusiast's book shelf, right next to Doug DeMaw's *QRP Notebook*. Although *QRP Classics* is based on *QST* articles from 1975 through 1990 and the 1990 *ARRL Handbook*, it is much handier than a stack of magazines because it represents the best QRP articles from the last 16 years. Longtime *QST* readers will notice the omission of some of the novelty QRP rigs like the "Tuna Tin 2", the "Sardine Sender", or the "Herring Aid Five" receiver in favor of some of the more conventional construction projects.

The 274 pages in this book are divided into 9 chapters covering a bit of the philosophy behind QRP, construction practices, receivers, transmitters, transceivers, antennas, accessories, power supplies, and design hints. Most of the projects are pure homebrew; a few describe modifications to commercially available equipment. If a series from *QST* is included in this book, the individual articles appear in the correct order. Believe it or not, I've seen other anthologies from other publishers where part one of a series would appear after part two, while other parts might be missing completely. *QRP Classics* is very well put together in a very logical order. Each article reproduced in *QRP Classics* is identified as to the issue of *QST* in which it originally appeared.

Who would benefit from reading *QRP Classics*? Anyone who enjoys challenges might enjoy this book. Not only does it present the challenge of low power communications in a well organized way, it also presents the challenge of homebrewing in a manner which should not intimidate the average reader. Hardcore homebrewers may appreciate the comments in chapter two regarding stripping old TV sets and broadcast receivers to reuse their components. Newcomers to Amateur Radio will be exposed to another aspect of the hobby. (Newcomers probably don't have a stack of old *QST*s to glean information from.)

Is there anyone who wouldn't enjoy reading this book? Well, I suppose an appliance operator whose idea of QRP is turning off the amplifier might not have much reason to read *QRP Classics*.

Reading *QRP Classics* reminded me that my first CW contact was made with a Heathkit HW-8. Sometimes I wish I still had that rig. Then again, maybe I could recycle parts from derelict CB radios to build QRP transmitters. Yes, that's what I'll do. After all, if a CB can put out four watts on 27 MHz, the RF transistors could be used on HF amateur bands. Sure, and a tuning capacitor from an old FM broadcast receiver could be used in the VFO. *QRP Classics* has rekindled my interest in QRP.

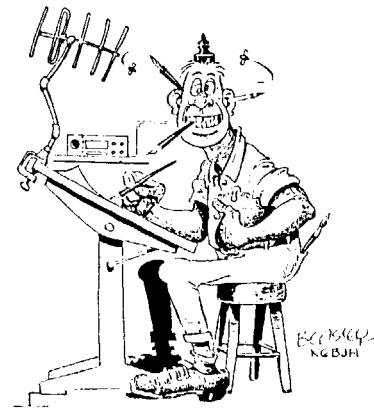
QRP Classics is published by the American Radio Relay League, and has a cover price of \$12.00. □

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THE "HAM" CARTOONIST

Self-Sketch?

Two cartoonists whose work you enjoy regularly in *Badger State Smoke Signals* are Joe Ash, W9ODV, Sheboygan, WI, and Bob Beasley, K6BJH, Homeland, CA. When Bob recently sent some cartoons to BSSS, he included his QSL card, reproduced at left. We thought our readers would enjoy seeing the way Bob sees himself!

AMATEUR RADIO STATION	DATE	TIME	MODE	FREQ	RIG
SAMPLE					
CONFIRMING OUR QSO		UR RST			PWR ANT

Lakeshore Hamfest & Computer Swapfest

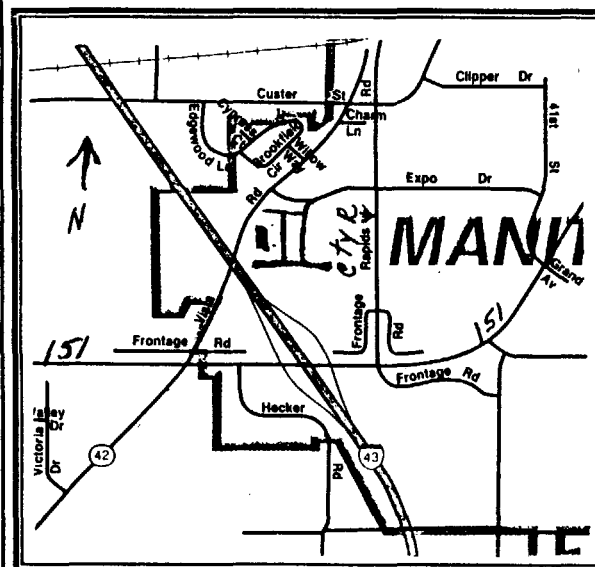
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P.O. Box 204
Manitowoc, WI 54221-0204

Please Include
a
S.A.S.E.!

Name: _____

Street: _____

State: _____ Zip: _____

_____ Advance Admissions @ \$2.00 each

_____ Reserved 8' Tables @ \$3.00 each

_____ Electric Outlets @ \$5.00 each

TOTAL

* Admission \$3.00 at the door

EXAMS
_____ Novice _____ Technician _____ Extra
_____ General _____ Advanced

Racine Megacycle Club

Arne Moxness, KA9ZPY, Secretary

3345 Newman Road • Racine, WI 53406

RACINE MEGACYCLE CLUB MEETING APRIL 8, 1991

President Dave, WB9USI, opened the meeting at 7:35 p.m. The February and March meeting minutes were approved, with one minor correction. Gifford School should be Gilmore School.

Present at the meeting were 16 members. Dave, WB9ZIO, gave the treasurer's report. New balance is \$372.64.

Old Business

Cheryl, WS9P, gave a report on the February dinner. There is a profit of \$94.47, which she suggested we put into the club's account for use at next year's dinner. Dave, WB9USI, suggested we find out what to do with the money, since it involves several clubs which sponsored the event.

Dennis, WB9SVM, reminded us to make sure we request permission to use Armstrong Park for this year's Field Day (June 22, 23). Steve, K9ZL, promised to mail a letter this week.

Jim, W9LXY, brought up the question of who will run the Field Day this year, and who has the paperwork from last year's event.

President Dave, WB9USI, informed us that Lloyd, WB9RGO, has donated 1990 Call Books to the club station. The club expresses its sincere thanks to Lloyd.

New Business

There was no new business.

President Dave, WB9USI, then introduced the speaker for the evening, Elroy Shelley, WB9GIE. Elroy held an informal meeting about his interesting experiences as a mobile biker, using an all-band transmitter, as well as a 2 meter rig. He showed his collection of QSL cards from all over the world, and several news clippings.

Several magazines about biking, outdoors etc. are working with Elroy on articles on his biking. He explained the equipment on the old bicycle he brought with him. He has, with this low power, (2 watts) set up, reached Melbourne, Australia and 69 countries. At the end of the meeting, which was adjourned 8:40 PM, he even gave a demonstration outside in a drizzle and got a contact with a very surprised ham in Florida. He is working on a publication and other facets to his hobby like video, picture taking, etc. I think we will hear more about Elroy, and we all thank him and wish him success in this endeavour.

After the meeting, most present met at Reflections for the traditional coffee. The circulating "Goody Box" was given to Dave, KB9EWG.

Respectfully submitted:
Arne, KA9ZPY, Secretary

The BEAM Flickers

After publishing three outstanding bi-monthly issues, *BEAM - The Amateur Electronic Communications Magazine*, editors have stopped mailing issues.

Last summer, wife and husband team Jo Chesworth, K3SJS, and Tom, W3IA, decided to try their idea to start an Amateur Radio magazine with a free subscription. After the announcement of *BEAM*, thousands of subscriber applications quickly packed their mailbox. They worked as editors to complete three issues: July/August, September/October, and November/December of 1990. Readers enjoyed dozens of practical articles, including "Back to Basics," "Operating Shack," "Oldtimer's Soapbox," and even "Elmer" cartoons.

When the magazine jumped off the budget track and advertising income began to waver, Jo and Tom help up printing the January/February issue. Advertiser support was not improving as planned. As you probably guessed, free subscription magazines get their financial support from advertisers. Few advertisers means few working

dollars. At \$12,000 per issue, the burden to continue publishing became unreasonable. The thought of making just a quarterly winter edition finally faded too, and they altogether abandoned publishing.

Jo regretfully says, "Advertisers wanted an established magazine in which to place their ads and get known results." It's like the dilemma of a first-time worker not getting hired because of lack of experience. Tom jokingly urges that any rich hams with excess cash should contact him immediately. Jo adds, "We're still getting free subscriber applications every day, 12,000 so far," but for lack of advertiser support, the dream of *BEAM* flickers fainter. The efforts of Jo and Tom will be remembered.

(Note: Jo and Tom Chesworth can be reached with your ideas at *BEAM*, P.O. Box 650, Boalsburg, PA 16827, (814) 466-6559.)

- The Chesworths were interviewed by telephone by Richard R. Regent, K9GDF

Events Calendar

Courtesy of Racine Megacycle Club

Apr 30	Lakeshore Rptr. Association Meeting
May 3	Fox Hunt
May 4	Swapfest at Cedarburg
May 4	ARRL testing at Red Cross
May 5	Swapfest at Dekalb, Ill.
May 5	Kenosha Ham breakfast
May 11	Swapfest at Jefferson
May 11	Swapfest at Manitowoc
May 13	Megacycle Meeting
May 16	Pony club Waukesha
May 19	Swapfest at Peotone, Ill.
May 20	QCWA meeting
May 26	Swapfest at Devrys, Ill.
May 31	Fox Hunt
Jun 1	ARRL testing at Red Cross
Jun 10	Megacycle Meeting
Jun 16	Swapfest at Stevens Point
Jun 23	Swapfest at Dupage, Ill.
Jun 22, 22	Field Day
Jun 28	Fox Hunt
Jul 6	Swapfest at South Milwaukee
Jul 8	Megacycle Meeting
Jul 14	Swapfest at Downers Grove
Jul 26	Fox Hunt
Jul 27	Swapfest at Eau Claire
Jul 30	Lakeshore Rptr. Association meeting
Aug 4	Southeast ARES Picnic
Aug 11	Swapfest at Sugar Grove
Aug 12	Megacycle Meeting
Aug 18	QCWA Picnic
Aug 23	Fox Hunt
Sep 1	Kenosha Ham breakfast
Sep 7	ARRL testing at Red Cross
Sep 8	Swapfest at Joliet
Sep 9	Megacycle Meeting
Sep 16	QCWA meeting
Sep 20	Fox Hunt
Sep 21, 22	Swapfest at Greyslake
Oct 5	ARRL testing at Red Cross
Oct 6	Kenosha Ham breakfast
Oct 13	Swapfest at Waukesha
Oct 14	Megacycle Meeting
Oct 18	Fox Hunt
Oct 20	QCWA meeting
Oct 29	Lakeshore Rptr. Association meeting
Nov 2	ARRL testing at Red Cross
Nov 3	Swapfest at Kaukana
Nov 3	Kenosha Ham breakfast
Nov 11	Megacycle Meeting
Nov 15	Fox Hunt
Nov 18	QCWA meeting
Dec 1	Kenosha Ham breakfast
Dec 7	ARRL testing at Red Cross
Dec 9	Megacycle Meeting
Dec 13	Fox Hunt
Dec 15	QCWA Xmas Party

Eau Claire Amateur Radio Club

Carl Searing, W9NW, Secretary

1129 McKinley Road • Eau Claire, WI 54703-2219

(Due to an editor's error, the March minutes of the Eau Claire Amateur Radio Club were not published in the April issue. We apologize for the omission.)

Minutes of March 12, 1991 Meeting

The meeting was opened at 7:30 p.m. by W9NNS, President Bill Jablonske, with about 30 members present. After a roll call, secretary's and treasurer's reports were read and approved. A round of applause was given to KB9R, Joe Eide, for his compilation and distribution of the new club rosters.

KB9R and W9BAR checked the antenna mast atop Sacred Heart Hospital's roof, and will replace it with a heavier one for better support to the 84/24 repeater antenna. KC9NN mentioned that the repeater's control is erratic. This will be checked out.

N9ISN spoke about Field Day, to be held at his farm west of Chippewa Falls. The Northern Wisconsin Radio Club will participate, as well as many Eau Claire club members, whose trailer will be set up for the event. A work party is needed to complete work on the trailer, including painting.

W9ZZI, club program chairman, has arranged for Bob Adams, a Hudson amateur, to speak on the

subject of Project SkyWarn at the next meeting. This will be an informational/training session. We understand that the material is basically from the National Weather Service.

The program consisted of a videotape entitled "More than Radios", obtained and shown by KB9R, who also provided the equipment. The tape was well received.

The next meeting will be on April 9, 1991. Lunch Committee: W9NNS and W9NW.

Meeting adjourned at 8:35 p.m.

Respectfully submitted:
W9NW, Secretary

Minutes of April 9, 1991 Meeting

President Bill Jablonske, W9NNS, opened the meeting at 7:30 p.m. Secretary's and treasurer's reports were read and approved. Roll call was held, with 30 members and guests present.

Difficulties with the controllers of both two-meter repeaters were reported. They are to be checked out. The 84/24 antenna has had its mast shortened, and is now mounted securely.

The club wishes a speedy recovery to Don Franzman, W9NFI, and Floyd Sexter, KA9KCX.



OUR WANT ADS GET RESULTS

FOR SALE: Receiver: Realistic DX-302 Trans-world CW/SSB/AM. 150 KHz to 30 MHz, digital tuning. Asking \$100. Steven Skalecki, Milwaukee, WI. (414) 481-0339.

Correction

The call sign of the operator aboard the submarine Cobia in our cover photo last month was typoed as KE9ECW. Clancy Meneau's correct call sign is, of course, KB9ECW. □

They have recently had heart surgery.

Andy, KA9HWN, discussed the club trailer project.

We will meet next month on May 14th at the Northern States Power building at 100 North Barstow Street in Eau Claire for a tour of their Systems Operations Center. Meeting time is 7:30 p.m.

Our program consisted of an excellent talk with slides and video by Bob Adams, KC0JJ, of Hudson. In keeping with Tornado Awareness Week, the subject was tornado and severe weather spotting. A good mix of slides, films and explanation provided much-needed information. Bob really knows his subject, and his enthusiasm was infectious. Many thanks to him, and to W9ZZI for making the arrangements, and to KB9R for providing equipment.

Lunch committee: Club Officers, by default.

Respectfully submitted:
W9NW, Secretary

Northern Wisconsin Radio Club

Steve Hart, KA9OMC, Secretary

- Since 1923 -

Route 1, Box 54 • Knapp, WI 54749



Greetings, NWRC members and guests.

The last meeting of the NWRC was March 26 at the Peppermill Restaurant in the Thunderbird Mall in Menomonie. President Steve, KE9RW, conducted the meeting. Balance at the time of the meeting was \$378.

New business before the group included the dedication of the *Who's Who* book in memory of W2GFK, Jerome Stewart. It was the decision of the group to offer \$25 to the *Smoke Signals* for their recent upgrades in equipment. Sponsorship of the Menomonie VEC was approved, and NX9F, Jim, will be heading up volunteers for the exams.

After the meeting, a program by Dunn County Director of Emergency Government Tom Johnson, N9KMZ, was given. Tom's main theme of the program centered on the idea that Amateur Radio plays an important part in the disaster plan locally, and that we are the "eyes and ears" for government

in times of emergency.

Some history of the creation of Civil Defense was given. Around 1950 was the first legislation of Civil Defense, and the floods of the '60s created a central office.

Some of Tom's responsibilities include lobbying for safety through him membership in the Wisconsin Emergency Management Association, contingency planning for nuclear and chemical disasters, and recovery plans for high water and plant disasters.

Tom answered many questions, and the group discussed the sites that help us to prepare and handle disaster with Amateur Radio equipment.

After the talk, a film was presented on the tornado that swept through the Twin Cities metro area in the mid-'80s.

This program was another excellent activity, and our appreciation goes to both Tom Johnson and ARRL Dunn County Emergency Coordinator Jim

H.R. 73: Groundswell Needed!

A recent letter from Perry Williams, W1UED, ARRL's Washington Area Coordinator reads: "Thanks for helping stir up support for H.R. 73 (The Amateur Radio Spectrum Protection Act of 1991) on Capitol Hill.... Many Members of Congress will hold back until they see a ground-swell of opinion from constituents...."

Only two Wisconsin Representatives have signed as co-sponsors of H.R. 73: Steve Gunderson and Gerald Kleczka. Send your letter to House Office Building, Washington, D.C. 20515. Send a copy to Perry at ARRL HQ, 225 Main St., Newington, 06111. □

Ley, NX9F, for informing us.

The club regrets to inform you of another local Silent Key. Victor Hintzman, W9WDK, passed away on April 16. Vic was active on 20 meters, and kept daily schedules. His service to friends and to the public through Amateur Radio was great.

The next meeting of the NWRC will be April 23 at the Thunderbird Mall, in the Peppermill Restaurant. A program, "More Than Radios," will be offered. This is the last spring meeting. The time of the meeting is 7:30 p.m.

Steve Hart, KA9OMC, NWRC Sec./Treas.

OFFICIAL PUBLICATION OF CENTRAL WISCONSIN RADIO AMATEURS, LTD.

At University of Wisconsin, Stevens Point



WB9QFW 2-Meter Repeater 146.07-.67 and Club Station

P. O. Box 847 • Plover, WI 54467

Minutes of April 10, 1991 meeting of the Central Wisconsin Radio Amateurs at UWSP.

(Submitted by Mike Pagel, KA9LAQ)

The meeting was called to order at 7:30 PM by President KA9LAQ.

The roll included:

N9IAT	Mike Smith
KA9ACE	Jim Benak
Visitor	Michelle Dannenberg
NE9U	Scott Jasper
N9JW	Joe Larson
KA9TTU	Joe Mangal
WD9JID	Mike Eiden
KE9IA	Gordon Miller
KB9FVU	Mike Oswald
N9CGV	Joe Omernik
W9BCC	Frank Guth
N9BCA	Art Wysocki
KE9MA	Gene Kroll
KB9FVU	Russ Fritz
N9EIL	Debra Kroll
Visitor	Earl Pflugardt
KA9FAS	Mary Eiden
KF9BG	Ray Dix
N9JQU	Dave Olson
KA9LAQ	Mike Pagel
KB9DUR	Adriana Dix
KB9???	Sara Weisensel

Secretary/Treasurer KF9BG (Ray) gave an updated assessment of the treasury, and the minutes of the previous meeting were approved. Ray also reported that our ATV Receiving equipment has arrived and is being set up by K9DB (Paul Nelles).

W9BCC (Frank) is taking orders for those flashy, bright yellow/orange Emergency Communications polo shirts that we wear when performing our communications services in public. The anticipated price is around \$15, and would include your name and call in black letters above the front pocket. Contact Frank at 344-2566 to order yours!

N9BCA (Art Wysocki) distributed our SWAPFEST flyers at Madison. Art needs your help in spreading the word so, if you plan to travel to other swapfests in the region, pick up some flyers from Art. PLEASE let others know about our SWAPFEST. We need participation in order to earn the continuing involvement of the vendors and instructors that make our SWAPFEST worth visiting.

Art also asked that I remind everyone that the University Center, our SWAPFEST site, features a comfortable lounge with plenty of room to sit down, visit with old and new friends, and rest up before charging off to see the next row of tables or program of your choice.

KA9TTU (Joe) has been busy with his new role as the CWRA liaison to the Special Olympics, and reported that preparations are proceeding smoothly. MARK YOUR CALENDARS for this year's Special Olympics Summer Games! Dates are June 28, 29 and 30 and, owing to organizational adjustments, we will require more help from Hams than in previous years.

Our Special Events/Program Manager WB9E (Brian) was unable to attend, and KA9LAQ reminded everyone that Field Day was coming up on Saturday and Sunday, June 22nd and 23rd. Between now and our meeting in May, please give some consideration to the type of event you would like our Field Day to be and make your feelings known at the May meeting.

KA9ACE (Jim Benak) is Portage County's Emergency Coordinator, and he took the floor to remind the old timers and educate the newcomers about the proper procedures for participation in emergency net operations. Jim announced an upcoming simulated tornado watch/warning sponsored by Emergency Government, and he also invited everyone to participate in the Portage County Amateur Radio Emergency Services (ARES) Net on the W9NN Repeater (146.985), which convenes each Monday at 9 PM local time. Jim shares Net Control responsibilities with N9EIL (Debbie Kroll). Both encourage your participation!

KB9DUR (Adriana Dix) asked for club member's support for her participation in a fund drive to raise money to finance a trip for her school band. Members were encouraged to bring their filthy automobiles to the SPASH Parking lot between 9 AM and 2 PM on Saturday, April 27 (can you wash the rust off of my car, Adriana?).

N9JW (Joe Larson) is our Club Instructor, and he has 5 copies of Tune in the World for sale. He reported that 5 copies of the Technician manual are on backorder from ARRL, but he does have 2 copies of the FCC Rule Book and a copy of the recently expired General Class manual available. Joe says that the General Class study guide is not really out of date, as Ohm's Law has not been repealed. If it has been repealed, the VE's have not been told about it.

CALENDAR OF UPCOMING EVENTS

May 8	Club meeting
June 12	Club meeting
June 16	SWAPFEST/FCC exams (UWSP University Center)
June 22-23	Field Day!
June 28, 29, 30	Special Olympics Summer Games
July 10	Club meeting
August	Annual Fox Hunt/Cookout (Date to be announced)
September 11	Club meeting and Annual Elections

W9BCC (Frank Guth) and KA9LAQ are both on the Board of Directors of the Rib Mountain Repeater Association (RMRA). Frank reported on a recent meeting of the board. Both W9BCC and KA9LAQ managed to escape additional crushing responsibilities by extolling the virtues of leadership to others on the Board, who volunteered to serve as President, Vice-President and Secretary/Treasurer. Frank reminded everyone to tune in to the W9BCC Repeater (RMRA - 146.820) to hear live NASA/shuttle communications. He also encouraged all CWRA members to support the RMRA and its role as our wide-area repeater by becoming members of the RMRA. Those with suggestions or comments regarding the ".82" system are encouraged to contact either Frank or Mike.

The meeting ended at 8:12 PM.

Our evening's program was came from Dr. Eric Anderson, Associate Professor of Wildlife at the College of Natural Resources at UWSP. Eric presented an overview of the role provided by radio direction-finding and telemetry in wildlife research. He displayed several transmitter-equipped collars for use on bear, raccoon and flying squirrels. Eric shared several personal experiences and discussed problems common to our hobby as well, such as man-made interference and multipath.

His handheld receiving antenna and receiver drew considerable interest, especially when the members learned what these items cost researchers. A simple handheld "H" antenna, for instance, was listed in the catalog for \$99! The receiver (twice the size of my Icom 28H) was capable of scanning several known frequencies to determine the proximity of tagged animals (a boon to researchers, apparently, hi!) and featured extreme sensitivity to detect the AM signals sent by transmitters running as little as 400 micro-watts. That receiver was over \$700!

Dr. Anderson pointed to the potential for valuable exchanges in information and technique with our club in the future. Based on audience reaction, I'd say he might be on to something.

Both Dr. Anderson's presentation and Dr. Miller's China Slides and narrative in April have been excellent programs, offering information of general interest while gently pushing the mind and soul to new discoveries.

Short business meetings, good programs and eyeball QSO's make for a pleasant evening. Care to join us?

Editor's Soapbox

Thanks for reading and 73, DE KA9LAQ. □

Taylor County Area Amateur Radio Club

Rolland Walty, W9LEE, Secretary

W4117 Highway 102 • Westboro, WI 54490

Next regular club meeting: May 9 at 7 p.m. in the Taylor County Court House Annex, 2nd and Ogden, in Medford. We expect to have a refresher on severe weather, so please try to attend.

Minutes of April 11 Meeting

Members in attendance were WD9FWP, WD9-ASX, N9GEN, KE4FE, N9GHZ, KE9LX, KB9-BLV, KA9UXN, N9IDW, N9FZD, and W9LEE.

The meeting was called to order at 7:02 p.m. by President N9GEN.

The minutes of the March 14 meeting were read and approved. The treasurer's report, indicating a satisfactory balance, was read and approved.

N9GHZ reported that he had been approached about the possibility of a Boy Scout Explorer troop being formed in the area, with the club as advisor. The matter was tabled, pending receipt of more detailed information.

There was a brief discussion of the Amateur Radio display to be set up at the Abbotsford Tech Fair on April 26 and 27. The subject of Field Day was brought up, and N9GHZ and N9FZD were named as a committee to check on available sites.

The status of the packet digipeater sponsored by the club was discussed, with N9GHZ reporting that the unit was off the air pending receipt of new equipment.

It was decided to investigate the possibility of linking the W9QHI repeater with a remote receiving site in the west end of the county, since some difficulty in accessing the repeater from that area has been experienced.

N9GHZ reported an average of ten students attending the Novice and Technician code classes being held at Thorp.

The meeting was adjourned at 8:16 p.m.

Rolland Walty, W9LEE, Secretary

Wisconsin Repeater Directory • Courtesy of the Wisconsin Association of Repeaters

The WISCONSIN ASSOCIATION OF REPEATERS is an organization of trustees and representatives of repeaters, state-wide, whose goal is mutual cooperation on the VHF UHF spectrum, in the voluntary spirit of Amateur Radio.

GENERAL FREQUENCY COORDINATION POLICIES

1. We attempt to place no two repeaters on the same pair closer than 120 miles.
2. We attempt to place no repeater on a 15 kHz split pair closer than 40 miles to any adjacent 30 kHz standard spacing machine.
3. We not only assist proposed repeaters in finding a frequency where possible, but we actively attempt to protect coordinated repeaters' frequencies from interference whenever possible.
4. W.A.R. has suggested band plans for most of the FM spectrum, a subaudible tone plan for the State of Wisconsin and all necessary information for coordination of new or modifications to existing repeaters. Contact the Frequency Coordinator.

Nels Harvey, WA9JOB
Wisconsin Association of Repeaters
P.O. Box 23166
Milwaukee, WI 53223

O Carrier Access	B Burst
PL Sub-Audible Continuous Tone	T Touch-Tone
W Whistle	C Closed Private Repeater
A Autopatch	(CA) Closed Private Autopatch
E Emergency Power	L Link and/or Crossband
P Portable	R RACES Affiliated
Y RTTY/ASCII	Z Autopatch to Law Enforcement
PAC Packet Data Exchange	X Wide Area Coverage

Wisconsin Sub-Audible Tone Plan By Region

North Central - 2A, 114.8 HZ.	North East - 1B, 107.2 HZ.
North West - 2Z, 110.9 HZ.	South Central - 3Z, 123.0 HZ.
South East - 3A, 127.3 HZ.	South West - 3B, 131.8 HZ.

Standard Inputs Unless Otherwise Noted

-600 KHz. below 147.00 MHz, +600 KHz. TO 148.00 MHz.
-1.6 MHz. for 220 MHz, and +5 MHz. for 440 MHz.
421.25 MHz. TV Video + 18 MHz. 425.75 MHz. TV Aural, + 9 MHz.

Location	Rg	Output	Call	Access	Update	OK=*	Sponsor	Updated
ALGOMA	NE	146.805	WB9RJB/R	O PL 107.2			WB9RJB	10/21/90
ALLENTON	SE	442.350	N9GMT/R	O A E L X PL 114.8			L-FM 38	08/24/90
ANTIGO	NC	145.310	KD9HH/R				KD9HH	11/15/90
APPLETON	NE	145.330	WB9ANR/R	O PL 107.2			F V VHF A	03/14/90
APPLETON	NE	146.760	K9QQO/R	O			F V VHF A	04/20/90
APPLETON	NE	443.025	WB9IYV/R	C			WB9IYV	11/29/90
APPLETON	NE	443.650	W9DKY/R	O			W9DKY	04/20/90
BALDWIN	NW	145.130	W9AVX/R	O Z			ST.CR CD	06/08/90
BALDWIN	NW	147.330	W9GWH/R	O			ST.CR RA	11/03/90
BARABOO	SC	146.880	WA9WVE/R	O E X			C W R A	10/25/90
BAYFIELD	NW	146.610	W9BCY/R	O			NLAND ARC	06/11/90
BELOIT	SC	146.670	WA9JTX/R	O E R			BELOIT AR	03/14/90
BELOIT	SC	224.300	WB9UBM/R	O TT			C.B.S.RG	11/15/90
BERLIN	SC	443.850	N9AOZ/R	O A PL 123.0			N9AOZ	06/08/90
BURLINGTON	SE	146.745	W9IGV/R	O			H L H R G	03/30/90
BURLINGTON	SE	224.060	N9BBQ/R	O PL A E			SE WI ERS	03/20/90
CHIPPEWA FALLS	NW	146.880	WA9PAM/R	O			WA9PAM	08/20/90
CHIPPEWA FALLS	NW	444.350	WA9PAM/R	O			WA9PAM	08/20/90
COLGATE	SE	444.725	NY9Y/R	O			NY9Y	02/20/90
CRIVITZ	NC	145.470	KA9YQJ/R	O PL 114.8 CA			KA9YQJ	08/20/90
DE PERE	NE	443.750	KE9LZ/R	O			N9EPC	03/18/90
DELAWARE	SE	146.820	W9QW/R	O CA E X			SEWFAE	03/14/90
DELAWARE	SE	444.125	WB9HGR/R	O E PL 114.8			SEWFAE	03/14/90

Location	Rg	Output	Call	Access	Update	OK=*	Sponsor	Updated
DORCHESTER	NC	145.270	WA9ZCO/R	O A E Z (TEMP OFF)			WA9ZCO	03/30/90
EAGLE RIVER	NC	145.390	KD9PT/R	O			KD9PT	03/14/90
EAU CLAIRE	NW	146.910	K9UXP/R	O A E X			E C ARC	06/11/90
EAU CLAIRE	NW	147.195	KA9LJK/R	O			KA9LJK	07/16/90
EAU CLAIRE	NW	147.240	KA9ELD/R	O CA E			E C ARC	06/11/90
EAU CLAIRE	NW	443.300	KB9R/R	O			KB9R/R	03/14/90
EAU CLAIRE	NW	444.675	KA9LJK/R	O			KA9LJK	07/16/90
ELKHORN	SE	146.865	WA9AJW/R	O			W CO ARES	06/08/90
ETTRICK	SW	146.700	WA9HCZ/R	RTTY			WA9HCZ	06/11/90
FALL CREEK	NW	145.470	K9ZVZ/R	O A E			K9ZVZ	03/20/99
FOND DU LAC	NE	147.090	W9ESH/R	O A E			FOND ARC	03/14/90
FOND DU LAC	NE	223.740	WA4COY/R	O B CA			WA4COY	09/13/90
FOND DU LAC	NE	444.150	WA4COY/R	O B A PL 107.2			WA4COY	09/13/90
FORT ATKINSON	SC	224.420	N9DTT/R	PL			N9DTT	03/14/90
FRANKLIN	SE	444.625	K9WQG/R	O			K9WQG	11/22/90
FREEDOM	NE	224.220	AA9A/R	O PL			AA9A	11/15/90
FREMONT	NC	147.015	N9AOT/R	O TT CA L 29.600			N9AOT	03/14/90
GERMANTOWN	SE	147.045	WB9EFP/R	C CA			WB9EFP	04/20/90
GERMANTOWN	SE	224.180	W9CQO/R	O			O.R.C.	01/04/91
GERMANTOWN	SE	443.225	W9DHI/R	O PL 114.8			W E R A	01/04/91
GERMANTOWN	SE	443.525	WB9EFP/R	O			WB9EFP	04/20/90
GREEN BAY	NE	147.120	K9GB/R	O A E Z			G B M&K	03/15/90
GREEN BAY	NE	147.270	KE9LZ/R	O TT 31UP 32 DOWN			N+ WRL	06/08/90
GREEN BAY	NE	147.360	K9EAM/R	O A E Z			GB M&C	03/15/90
GREEN BAY	NE	224.140	K290/R	O A E L			G B R USR	06/08/90
GREEN BAY	NE	224.480	WA9SRW/R	O			WA9SRW	01/04/91
GREEN BAY	NE	443.500	WA9SWX/R	O A E Z			GB M&K	03/15/90
GREEN BAY	NE	444.200	WB9VJV/A	C			WB9VJV	06/08/90
GREEN LAKE	SC	146.955	KB9WC/R	O E			G FOX ARC	04/04/90
GREEN LAKE	SC	444.400	KB9WC/R	O			G FOX ARC	04/04/90
GREENDALE	SE	442.150	KD9Y/R	O			K.R.G.	09/30/90
GREENFIELD	SE	52.880	WB9WKR/R	O			GF'LD 6RS	08/20/90
GREENFIELD	SE	444.975	N9CFG/R	O PL 127.3 CA			N9CFG	11/04/90
HAYWARD	NW	147.255	KB9D/R	O CA			NVWA	08/08/90
HAYWARD	NW	444.850	N9EGE/R	O			N9EGE	03/14/90
HERTEL	NW	147.300	WB9RAY/R	O A			B.A.R.S.	03/14/90
HERTEL	NW	224.500	WB9RAY/R	O A			B.A.R.S.	03/14/90
HERTEL	NW	443.500	WB9RAY/R	O A			B.A.R.S.	03/14/90
HILLSBORO	SW	145.370	KA9WNX/R	O			KA9WNX	03/14/90
HIXTON	SW	146.940	KC9YE	O			T-J RA	03/14/90
HUBERTUS	SE	145.250	KA9HLP/R	O			A.R.E.S.	11/24/89
IRMA	NC	146.730	K9GTQ/R	O			K9GTQ	03/25/90
JANESVILLE	SC	145.450	W9ACY/R	O A E			R A T SYS	03/30/90
JEFFERSON	SC	145.490	W9MQB/R	O			TCARC	03/30/90
JUNEAU	SC	146.640	W9TCH/R	O A E 2911 WX			* ROCK R RC	03/29/91
KAUKAUNA	NE	444.450	ND9Z/R	O CA			ND9Z	09/16/90
KENOSHA	SE	147.075	WA9YTH/R	O A E PL 127.3			WA9YTH	03/30/90
KENOSHA	SE	224.800	WB9LST/R	O Z E L			WB9LST	03/14/90
LA CROSSE	SW	146.760	K9CUT/R	O			L C R ASC	06/08/90
LA CROSSE	SW	146.970	K0JYB/R	O A E			RV LNDARC	11/20/90
LA CROSSE	SW	147.090	N9ETD/R	O			F LUT ARC	02/07/90
LA VALLE	SC	442.400	W9EBF/R	O PL 123.0			W9EBF	05/07/90
LAC DU FLAMBEAU	NC	146.670	N9ADA/R	O PL			N9ADA	07/02/90
LOOI	SC	147.225	K9EY/R	O CA E PL 114.8			K9EY	06/08/90
MADISON	SC	146.685	W9YT/R	O PL 107.2			UW-B ARS	07/20/90
MADISON	SC	146.760	WB9AER/R	O B A E			M A R A	07/20/90
MADISON	SC	146.940	W9FZC/R	O PL 123.0			C W R A	10/25/90
MADISON	SC	147.150	WB9AER/R	O B A E			M A R A	07/20/90
MADISON	SC	224.160	WB9RSQ/R	O A			WB9RSQ	06/08/90
MADISON	SC	443.000	NZ9B/R	O			BURG	07/09/90
MADISON	SC	443.400	N9KAN/R	O CA PL 167.9			* N9KAN	03/30/91
MADISON	SC	443.675	KD9UU/R	O PL 114.8 OA'71' L			KD9UU	03/30/90
MADISON	SC	444.000	KA9VDU/R	O PL 123.0			KA9VDU	03/14/90
MADISON	SC	444.500	WB9TAE/R	O PL 123.0 E L			WB9TAE	09/10/90
MADISON	SC	444.775	NG9V/R	O PL 114.8			NG9V	04/04/90
MADISON	SC	444.925	WB9TAE/R	O PL (MOBILE)			WB9TAE	09/30/90
MANITOWOC	NE	145.190	WB9MFB/R	O X PL 107.2			WB9MFB	03/21/90
MANITOWOC	NE	146.610	WB9DK/R	O TT			MANCORAC	09/16/90

SMall Talk

By Richard R. Regent, K9GDF
Wisconsin ARRL Section Manager
5003 South 26th Street
Milwaukee, WI 53221

• Calumet ARES set up a demonstration station for Hilbert Hobby Days on April 11th, according to KE9VU.

• Congratulations to KB9DVS, son of Gene, K9UTQ, who was presented with the rank of Eagle Scout on April 13. UTQ's daughter, Sarah, will be attending the Annapolis Naval Academy and studying to get her amateur license.

• Wisconsin Frequency Coordinator Nels, WA9JOB, gave excellent presentations and helped with panel discussions for the Coordinator Forum at the Dayton Hamvention®.

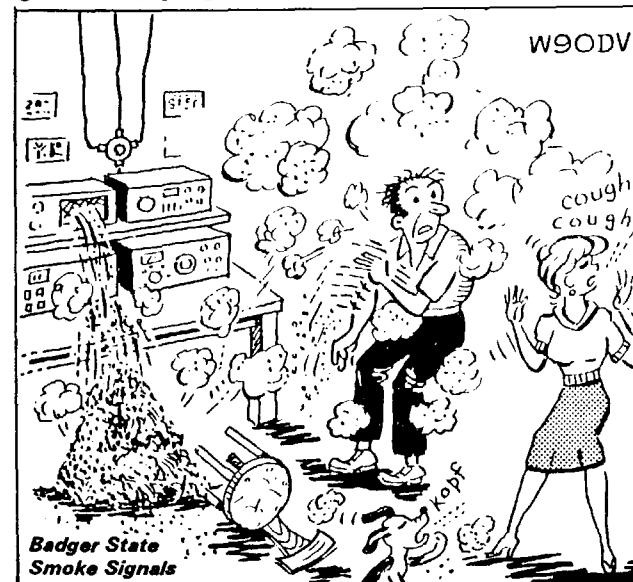
• July 20 will be the date for the first swapfest at Hilbert, according to KN9P. Calumet ARES will sponsor the indoor event, with free parking, at the Village Lanes on Highway 57, north of the village.

• Dane County ARES meets for various nets and practice on 146.94 MHz, per K9JVP.

• Thirty-member Allen Bradley Club members in Milwaukee are working to assemble a ninth-floor club station and qualify for ARRL affiliation.

• W9JNY, licensed 58 years, was in Washington, D.C., and says he heard a rumor of proposals to have CW limited to the first 100 KHz of each band, and to reduce the number of amateur license classes to two: Technician and General. That's news to me!

STORMIN' SANDsation



"THE SIGNALS WERE WEAK FROM SAUDI SO I TURNED ON MY NEW PRE-AMP!"

Location	Rg	Output	Call	Access	Update	OK=*	Sponsor	Updated	Location	Rg	Output	Call	Access	Update	OK=*	Sponsor	Updated
MANITOWOC	NE	146.700	K9FWR/R	RTTY			K9FWR	12/10/89	PORT WASHINGTON	SE	146.970	W9CQO/R	O A PL 127.3 EXZ			ORC	03/25/90
MANITOWOC	NE	147.030	N9GHE/R	O A K			N9GHE	03/14/90	RACINE	SE	147.270	W9UDU/R	O A E Z I P R			L/S RP A	12/31/90
MANITOWOC	NE	224.540	N9GHE/R	O CA			N9GHE	03/14/90	RACINE	SE	443.950	KA9JMK/R	O PL 127.3			KA9JMK	06/08/90
MANITOWOC	NE	443.975	N9GHE/R	O			N9GHE	03/14/90	RACINE	SE	444.050	KA9LOR/R	O			KA9LOR	04/20/90
MARINETTE	NE	147.000	NT9B/R	O ALSO MENOMONEE MI					RHINELANDER	NC	146.940	W9ZZZ/R	O A E			RHIN RP A	06/08/90
MARSHFIELD	NC	147.180	WN9K/R	OAE 2911 L 444.975			MARSH ARS	03/14/90	RICE LAKE	NW	145.110	WA9CXN/R	O			WA9CXN	09/13/90
MARSHFIELD	NC	444.975	WN9K/R	O E L 147.18			MARSH ARS	03/14/90	RICE LAKE	NW	147.030	WB9WFG/R	O E			BAR ARES	04/04/90
MAUSTON	SC	146.850	N9FVP/R	O			ARC OF CW	11/22/90	RICHLAND CENTER	SW	146.910	WB9SLI/R	O PL			P V RP A	03/30/90
MEDFORD	NC	147.150	W9QHI/R	O E P WX			TAYLOR	08/20/90	RIDGEWAY	SC	444.450	KA9WBX/R	O			KA9WBX	02/23/91
MENOMONEE FALLS	SE	444.425	KA9FIN/R	O			SHRINE	09/30/90	RIVER FALLS	NW	224.840	WB9WOT/R	O A			WB9WOT	10/21/90
MENOMONIE	NW	146.610	W9WDK/R	O			R CDR RA	09/10/90	RIVER FALLS	NW	443.800	K9ZMA/R	O			K9ZMA	11/29/90
MENOMONIE	NW	146.805	N9HNI/R	O			N9HNI	02/04/91	RUBICON	SC	145.350	WB9KPG/R	O A E Z			* WB9KPG	03/29/91
MILTON	SC	146.715	WD9FKW/R	O CA PL T			WD9FKW	03/20/90	SALEM	SE	223.720	N9BBQ/R	O A E L Z			N9BBQ	03/20/90
MILWAUKEE	SE	29.620	WB9ZRB/R	O			IND RP SY	03/14/90	SHAWANO	NC	145.350	KA9NWY/R	O A PL 114.8			KA9NWY	11/28/90
MILWAUKEE	SE	29.680	N9BBG/R	O PL 127.3			N9BBG	03/25/90	SHEBOYGAN	NE	145.110	K9PS/R	O			SHEB DX	06/23/90
MILWAUKEE	SE	53.030	WB9TRO/R	O E			W E R A	03/14/90	SHEBOYGAN	NE	147.060	W9RF/R	O CA			SHEB ARC	06/23/90
MILWAUKEE	SE	52.680	WB9ZRB/R	O			IND RP SY	03/14/90	SISTER BAY	NE	147.180	W9QBJ/R	O			WA9PFQ	09/30/90
MILWAUKEE	SE	145.130	N9EGR/R	O AE Z X PL 141.3			MAARS	07/16/90	SLINGER	SE	146.730	W9MQD/R	O TT 1200			WA CO RG	03/14/90
MILWAUKEE	SE	145.170	W9FK/R	O			W A RAC	03/15/90	SPOONER	NW	147.135	KE6WF/R	O E Z L 223.2MHZ.			KE6WF	11/15/90
MILWAUKEE	SE	145.230	N9BMH/R	PL 141.3			N9BMH	06/08/90	STEVENS POINT	NC	146.670	WB9QFW/R	O A E Z			CNT WI RA	03/25/90
MILWAUKEE	SE	145.390	WB9AFB/R	O PL 127.3			WB9AFB	11/19/90	STEVENS POINT	NC	146.985	W9NN/R	O			CNT WI RA	03/25/90
MILWAUKEE	SE	146.625	WB9ZRB/R	O			WB9ZRB	03/14/90	STEVENS POINT	NC	443.950	K9MIF/R	O			K9MIF	07/02/90
MILWAUKEE	SE	146.670	W9WK/R	O			ARES	10/09/90	STOCKBRIDGE	NE	145.210	KB9IE/R	O PL			P GRNT RA	03/20/90
MILWAUKEE	SE	146.790	W9HHX/R	O A PL			MSOE ARC	11/15/90	STOCKBRIDGE	NE	224.500	KB9IE/R	O A L			KB9IE	03/20/90
MILWAUKEE	SE	146.850	W9KHO/R	O PL 127.3 CA			MICORS	07/27/90	STOUGHTON	SC	434.000	N9BXA/R	O ATV			N9BXA	11/28/90
MILWAUKEE	SE	146.910	WA9JOB/R	O E Z X PL 127.3			M.R.C.	03/03/90	STURGEON BAY	NE	146.730	WB9YUY/R	O PL			WB9YUY	03/14/90
MILWAUKEE	SE	147.000	W9PY/R	O PL 146.2			P.R.C.	04/20/90	STURGEON BAY	NE	147.210	W9AIQ/R	O CA E Z			DOOR E G	03/15/90
MILWAUKEE	SE	147.105	K9IFF/R	C CA TT			K9IFF	03/14/90	STURGEON BAY	NE	444.000	WB9YUY/R	O			WB9YUY	03/14/90
MILWAUKEE	SE	147.135	N9YT/R	O PL 141.3			NY9T	12/04/90	STURTEVANT	SE	29.640	WA9ZYQ/R	O			WA9ZYQ	05/27/90
MILWAUKEE	SE	147.165	WB9SDD/R	O PL 127.3 E			WB9SDD	09/30/90	STURTEVANT	SE	224.740	WA9ZYQ/R	O A			WA9ZYQ	05/27/90
MILWAUKEE	SE	147.210	W9ODD/R	O			M.U. ARC	08/20/90	SUPERIOR	NW	145.490	K9ASC/R	O			DC RACES	04/04/90
MILWAUKEE	SE	147.330	N9EDL/R	O A PL 114.8			N9EDL	06/06/90	SUPERIOR	NW	146.760	W9BWK/R	O			T P A RA	01/01/91
MILWAUKEE	SE	223.860	WB9UOS/R	O			WB9UOS	11/27/90	SUPERIOR	NW	146.820	WA9VDW/R	O PL A			T P A RA	01/01/91
MILWAUKEE	SE	224.680	WD9ABR/R	O PL CA			WD9ABR	03/25/90	SUPERIOR	NW	444.900	WA9KLM/R	O A			WITC ARC	06/08/90
MILWAUKEE	SE	224.720	W9KHO/R	O CA PL 114.8			MICORS	07/27/90	TOMAH	SW	145.390	N9BOE/R	O A E Z			N9BOE	09/03/90
MILWAUKEE	SE	224.900	NK9G/R				NK9G	11/15/90	TOMAHAWK	NC	145.430	N9CLE/R	O			TOM RP A	06/08/90
MILWAUKEE	SE	224.960	WB9TYT/R	O CA PL 114.8			WB9TYT	07/27/90	TOMAHAWK	NC	223.760	N9CLE/R	O			TOM RP A	06/08/90
MILWAUKEE	SE	443.150	W9KHO/R	O PL 114.8			MICORS	07/27/90	TOMAHAWK	NC	444.575	N9CLE/R	O			N9CLE	08/14/90
MILWAUKEE	SE	443.300	WB9TYT/R	O PL 114.8			WB9TYT	07/27/90	TREBOR	SE	145.290	KA9VZD/R	O PL 107.2 A E L			STLIN ARC	06/08/90
MILWAUKEE	SE	443.550	K9HXA/A	C			K9HXA	09/30/90	TREBOR	SE	442.600	KA9VZD/R	O E A Z L 145.29			KA9VZD	06/08/90
MILWAUKEE	SE	443.700	WA9HUX/R	O PL			WA9HUX	11/28/90	WALES	SE	224.120	WB9DRO/R	O PL 114.8			WB9DRO	03/14/90
MILWAUKEE	SE	443.750	WA9POV/R	PL 127.3			M UHF SO	03/15/90	WAUKESHA	SE	147.390	N9KS/R	O			E.A.R.S.	05/10/90
MILWAUKEE	SE	443.800	N9GMT/R	O A E Z L PL 114.8			FM 38	03/15/90	WAUKESHA	SE	224.460	KE9TA/R	O PL 85.4 CA			KE9TA	07/09/90
MILWAUKEE	SE	444.200	K9HXA/A	C			K9HXA	09/30/90	WAUPACA	NC	145.410	WB9GJW/R	O CA			WB9GJW	12/18/89
MILWAUKEE	SE	444.250	N9DII/R	C PL 114.8			N9DII	06/08/90	WAUPACA	NC	146.835	N9BKJ/R	O			N9BKJ	06/08/90
MILWAUKEE	SE	444.300	W9WK/R	O Z PL 114.8			ARES	12/05/90	WAUPACA	NC	146.925	KE9UT/R	O A E 2911 WX R			A.R.E.S.	12/09/90
MILWAUKEE	SE	444.325	N9CFG/R	O PL 114.8			WERA	06/08/90	WAUPACA	NC	147.390	WA9FDC/R	O			WP'ACA RC	05/07/90
MILWAUKEE	SE	444.800	K9HXA/A	C			K9HXA	09/30/90	WAUPACA	NC	442.000	KE9UT/R	O			KE9UT	03/20/90
MILWAUKEE	SE	444.850	WB9TRO/R	C PL A E L			WERA	03/14/90	WAUPACA	NC	444.825	N9BKJ/R	O L			N9BKJ	06/08/90
MILWAUKEE	SE	444.875	WB9TRO/R	C			WERA	03/14/90	WAUSAU	NC	146.640	W9SM/R	O E CA L Z X			W.V.R.A.	03/30/90
MILWAUKEE	SE	444.950	N9EDL/R	O A			N9EDL	06/06/90	WAUSAU	NC	146.820	W9BCC/R	O E Z CA L X			RIB MT RA	05/27/90
MILWAUKEE	SE	2391.250	K9JT/R	O			K9JT	11/04/90	WAUSAU	NC	147.060	W9KRY/R	O CA E			KC9NW	07/02/90
MINERAL POINT	SC	146.655	NX9V/R	O			NX9V	06/06/90	WAUSAU	NC	224.640	W9SM/R	O E CA L Z X			WI VAL RC	06/08/90
MONROE	SC	145.110	N9RW/R	O			G C AR3	03/20/90	WAUSAU	NC	421.250	AD9W/R	O E H SYNC			VIDEO	06/08/90
NEW BERLIN	SE	147.285	W9EBF/R	O PL			W9EBF	05/07/90	WAUSAU	NC	923.250	AD9W/R	O AURAL 927.75 L			AD9W	03/31/90
NEW BERLIN	SE	442.400	W9EBF/R	O PL			W9EBF	05/07/90	WAUSAU	NC	443.750	KC9NW/R	O CA			KC9NW	08/20/90
NEW HOLSTEIN	NE	147.300	K9LGR/R	O A E Z			C.A.R.E.S	09/16/90	WAUSAU	NC	443.750	KC9NW/R	O CA E			KC9NW	07/02/90
NEW LONDON	NE	146.625	WB9ICH/R	O			WB9ICH	03/14/90	WAUSAU	NC	444.100	W9SM/R	O CA 2911			WVRA	11/03/90
OSHKOSH	NE	147.240	WB9TDU/R	O TT			WIN CTY E	08/20/90	WAUSAU	NC	444.300	W9BCC/R	O E Z L			W9BCC	03/30/90
OSHKOSH	NE	147.345	WB9ZHN/R	O A E Z			SOLAR	03/14/90	WAUSAU	NC	444.700	KC9NW/R	O E CA PL 179.9			KC9NW	07/02/90
PARK FALLS	NC	147.000	WB9WHP/R	O			PRICE RA	04/04/90	WEBB LAKE	NW	145.190	NOEDV/R	O			NOEDV	09/13/90
PEPIN	NW	145.350	KB9S/R	O			WAB ARS	11/22/90	WEST ALLIS	SE	224.520	KA9JCP/R	O			KA9JCP	03/15/90
PEWAUKEE	SE	147.210	WB9AKC/R	O PL 173.8			W.C.T.C.	05/27/90	WEST ALLIS	SE	442.650	N9EJO/R	O PL T			N9EJO	05/27/90
PEWAUKEE	SE	443.125	WB9AKC/R	O PL 114.8			W.C.T.C	05/27/90	WEST BEND	SE	444.900	N51IA/R	O			N51IA	10/07/90
PLATTEVILLE	SW	145.270	WK9M/R	O A E			UWP-ARC	01/02/91	WISCONSIN RAPIDS	NC	146.790	W9DQA/R	O E 2911 CA			MID-ST RA	12/18/90
PLYMOUTH	NE	224.940	KD9PE/R	O			SC 220 A	03/14/90	WISCONSIN RAPIDS	NC	147.330	K9PJB/R	O CA E Z			WI AIR RA	06/08/90
PLYMOUTH	SE	444.100	KD9TZ/R	O PL 107.2			KD9TZ	03/14/90									
PLYMOUTH	NE	444.350	WE9R/R	O PL 114.8			WERA	08/20/90									
POWERS LAKE	SE	443.925	KC9XN/R	O PL 114.8			L/K AMA S	06/08/90									
POYNETTE	SC	224.660	KE9KX/R	O			KE9KX	01/04/91									



Riverland Amateur Radio Club

Karl Simonson, KB9EQI, Secretary

P.O. Box 2251 • La Crosse, WI 54602-2251



New Meeting Time

The meeting time for the Riverland Amateur Radio Club has been changed. The new time is 7:45 p.m. on the first Tuesday of the month at the Onalaska Community Center.

The April meeting of the Riverland Amateur Radio Club was called to order by our President, Walt Altus, WD9GCR, at 7:30 p.m. on April 2. Members and guests were introduced.

The secretary's report was read from *Badger State Smoke Signals*, followed by a request for additions or corrections. It was noted that the time of the SkyWarn training was incorrectly stated as 10:30. The correct time was 9:30. It was also noted the information printed on the secretary's position vacancy was incorrect. The minutes stated the outgoing secretary as being Dan McKenzie, WC0V. The secretary was Dean Summers, KQ0C. The minutes were approved with the aforementioned corrections.

Our treasurer, Arby Boomer, WF9T, was not present, and no treasurer's report was given.

The club secretary's position vacancy was again addressed. Walt announced that a volunteer candidate has been found. The candidate is Karl Simonson, KB9EQI. A request for other nominations was called. After hearing no further nominations, the nominations were closed. Walt then suggested that an election by unanimous vote be declared for Karl. A verbal ballot was taken and Karl was approved.

Dan, WC0V, was asked to report on the new Repeater Research Committee's findings and make suggestions. Several ideas were disclosed, including use of bands other than 2 meters, or a possible UHF link which could allow access to La Crosse exchange telephone line. Considerable discussion was heard from individuals in favor of and those against the proposals. The committee will continue to conduct research, and is open to comments or suggestions.

In a related matter, there was an announcement that 17 current members do not have autopatch service available to their respective telephone exchanges. The proposed new repeater would address this concern. It was also noted that a La Crosse telephone exchange would not eliminate the problem entirely, but would enhance the capabilities of all club members.

Larry, WT9M, made a motion to place copies of *Tune in the World* at the La Crosse and Onalaska public libraries. This was mentioned previously, and is being investigated. Joe, WA9SOQ, said this should be distributed via the county library, and would then be circulated by the bookmobile. Char-

lie, KA9UUK, encouraged members wishing to donate excess Amateur Radio materials to contact their local community library. Scott, KA9FOX, reminded us about the book locator services provided through the Winding Rivers Library System inter-library loan network.

Walt then called for new business.

A motion was made by Charlie to start the club meetings 10 minutes later, which was amended to 15 minutes later after a suggestion by Art, W0JDC. The motion was seconded by Rick. The motion carried. The purpose of the motion was to allow the new secretary, Karl, adequate time to arrive for the meetings. Scott asked if this would require constitutional changes. Charlie answered him by stating that no changes were necessary.

Van, WA9FIO, suggested that a committee be formed to investigate other uses for club funds. A travel trailer was suggested to fulfill a variety of uses. Dean, KQ0C, indicated he was willing to allow the club use of his open-type trailer for club use.

Karl made a motion to form a committee to investigate the purchase of a travel trailer for club use. Dan seconded the motion. The motion carried. Committee members are Van, WA9FIO, Chairman; Nook, K9EGO; Larry, WT9M; and Kent, W9LZQ. Kent said a crew would be needed to decorate the trailer if and when acquired. Kent also said the proposed trailer would be ideal for enhancing public awareness of Amateur Radio and our club. George, KE9PL, suggested that a cost figure be determined to assist the committee in its research.

Walt said that Feroz, WU9N, the club program chairman, was seeking the club approval of \$50.00 for expenses related to the upcoming club picnic, to be held in June. The expenses are shelter reservation fees and charcoal and charcoal lighter. Nook said the club may use his portable propane grill for the picnic. A motion was made by John, KA9ETH, for the approval of \$50.00 of club funds to be allowed for picnic expenses. The motion was seconded by Rick, KV9U. The motion carried.

Rick moved that the club allow \$20.00 for expenses incurred in association with the planetarium program to be held in November. Dan seconded the motion. This motion was also carried.

Rick brought to the club's attention an article about the origins of ham radio published in the spring issue of *Handi-Ham News*.

Van moved for adjournment. Dan seconded the motion.

The program was then presented by Tom, N9KIA, on the features of the K0JYB repeater and operation tips.

Respectfully submitted:
Karl Simonson, KB9EQI

Promoting the Amateur Radio Emergency Service



Working hard at the Madison Swapfest to explain and develop interest in Amateur Radio emergency and public service communications were Jim Stone, K9JVP, Mount Horeb (left), and John Offerdahl, KC9XH, Verona. John is Emergency Coordinator for Severe Weather Net (SkyWarn) operations on the Baraboo 146.88 MHz repeater. Those interested in participating in such weather nets are strongly encouraged to attend a weather spotter's course; such courses are held all around the state, usually by National Weather Service personnel, in the Spring months. □

Meeting Attendance

Walt Altus	WD9GCR
Charlie Burch	KA9UUK
George Kroner	KE9PL
Joe Mazera	WA9SOQ
Jim Brooker	N9DBK
Larry Kapp	WT9M
Phil Uehling	W9UP
Greg A. Miller	KA9FOZ
John Young	W9KAZ
Kent Helman	W9LZQ
Bob Selbrede	KA9EZR
Van Elston	WA9FIO
Anne Elston	KA9LLB
Ron Reed	KD9OY
John Jorenby	KA9ETH
Richard Koebernick	KA9ZZK
Scott Hurd	KB9GCV
Ernie Gershon	K9ZVU
Lee Fortun	WW9O
Hugh Barker	KA0EJZ
Scott Neader	KA9FOX
Ralph Jahimiak	W9OAE
L.F. Bentzen	K9EGO
Dean Summers	KQ0C
Dallas C. Miller	K9LEC
Gary Webb	N19V
Art Osborn	W0JDC
Tom Gromacki	N9KIA
Dan McKenzie	WC0V
Karl Simonson	KB9EQI

From the Editor

Time for a Name Change?

When this publication began in 1969, it was the club paper of the Yellow Thunder Amateur Radio Club. Since the name "Yellow Thunder" was that of a Native American who resided in this area around 1900, the club newspaper's name became *Yellow Thunder Smoke Signals*. (A monument to Yellow Thunder is located about halfway between Baraboo and Lake Delton on Sauk County Trunk Highway A.)

The name *Yellow Thunder Smoke Signals* was appropriate for the club's newspaper. But, about five years ago, the newspaper was separated from the club. Since the newspaper was to become one serving the state and the area around it, "Yellow Thunder Smoke Signals" was changed to "Badger State Smoke Signals."

I believe that name should be changed, and here

is the primary reason: The name tells the reader (or potential reader) absolutely nothing about the newspaper's content. "Badger State Smoke Signals" doesn't work the way "Yellow Thunder Smoke Signals" did. At first glance, one might think it to be a newspaper about Native Americans in Wisconsin. It certainly doesn't convey "Amateur Radio" in any way (except for those lively smoke signals occasions when a home-built project is first - and sometimes literally - "fired up.")

I have, over the past few years, discussed this with our other two committee members (Ken Ebner, K9EN, Chairman, and Jim Decker, WB9UQT, Treasurer). Of course, we made no decision to make a change. However, a recent remark in the *Amateur Radio News Service Bulletin* about some of the newsletter and newspaper names for ham radio publications reinforced my own thinking and belief; that is, the newspaper's name should indicate clearly the subject matter and general content of the publication.

I also discussed a possible name change with a fellow editor here in Wisconsin. He said he was opposed to any change, and that Badger State Smoke Signals is fine just the way it is. I place a great deal

of value on his opinions and ideas.

So, it's quandary time for us. What shall we do? My gut tells me that the name should be changed. If it is changed, to what? A number of names have come to mind over the years.

I'm also concerned about using "Badger State" or "Wisconsin" in a name, even though Wisconsin is our primary area of coverage. A potential advertiser sees "Badger State" or "Wisconsin" in the name, and that's an immediate turnoff, because it indicates very limited circulation and coverage, even though that isn't the case here.

So, what to do - if we do anything at all? "Wisconsin Amateur Radio Journal"? (Too limited area.) "Midwest Amateur Radio News"? (Area too big.) "Upper Midwest Amateur Radio News"? (Too general.) "Amateuradio"? (Already taken, although I like that one!) "Midradio"? (A little foggy about the subject, and Armond Noble, N6WR, of *World-radio*, might rattle our cage a bit about the similarity in names.)

Well, we are open to our readers' ideas. What do you think? Drop a note to your editor with your thoughts, and with your suggestions for names. Send 'em to 412 1/2 Ash Street, Baraboo, WI 53913. Let us hear from you. If (1) we do change this newspaper's name, and (2) if we use your idea, you will receive a free *ARRL Handbook*.

The New Computer's Here!

The new computer system which has been needed for such a long time to produce *Badger State Smoke Signals* has been purchased, is on the computer desk, and is hard at work even as I type.

It is IBM compatible, of course. It is 286-based, runs at 16 MHz, and has a 40 Megabyte hard drive, along with a 5 1/4" high-density floppy drive (1.2 Megabytes) and a 3 1/2" drive (1.44 Megabytes). The 5 1/4" drive will also read standard 720K DSDD disks.

Those who submit (or want to submit) material to BSSS for publication may send the information on either size disk, in ASCII format. Material submitted in this manner saves a great deal of time here, and it is greatly appreciated! Hard copy should also be sent, to cover those unexpected situations where we may have trouble reading a disk file.

Currently, two participating clubs are sending their information on disk, Central Wisconsin Radio Amateurs at UW-Stevens Point, and the Racine Megacycle Club. We have had no trouble reading disk files from those clubs, and we extend our thanks to them for making things easier for us on this end!

The clubs and the individual who helped so much to make the new computer a reality are listed on this page.

The Madison Swapfest

I attended the Madison Swapfest, and was very happy to see many friends, a lot of whom I haven't seen for years. It's difficult at best to try to grab the opportunity to say hello to so many long-time friends while trying to talk with others at the same time! This is the only such event I can attend during the year, so I don't want to let the chance slip away to greet as many folk as possible. If, by chance, you

Thank You!

Badger State Smoke Signals acknowledges with gratitude the following whose contributions made our new computer system possible. Without their generosity and willingness to help, the new system would not have been possible.

- ★ Eau Claire Amateur Radio Club
- ★ Green Bay Mike & Key Club
- ★ William Klinkner, N9KXX
- ★ Northern Wisconsin Radio Club
- ★ Riverland Amateur Radio Club
- ★ West Allis Radio Amateur Club
- ★ Wisconsin Association of Repeaters
- ★ Wisconsin Nets Association

In addition, our sincere thanks for their help in repairing our old computer, which will be used for backup, to the

- ★ South Milwaukee Amateur Radio Club

Thanks again from the BSSS staff!

were talking with me and didn't have a chance to finish what you were saying to me because I was greeting others at the same time, I hope you will understand. It was great to see you all!

Editor is on Packet

From time to time, I'm asked if I am on packet radio. The answer is "sometimes, yes." The "sometimes" is because I'm using my trusty Icom IC-2AT, with alkaline battery power. Thus, I do not leave it on; I do, however, check my home BBS at least once a day for messages. If you have traffic for me, send it to K9ZZ@WD9ESU. I frequently have problems sending or receiving traffic with my modest rig, but I'm persistent and I eventually succeed.

If you send me traffic, *please do not send anything that would be business-related (such as messages about BSSS ads, etc.).*

We're on the LAN frequency of 145.07 and, if you can digi to them, you can also leave traffic for this area at W9WSS-1 in Baraboo (a small, local BBS) or in K9EN's mailbox. Please keep such messages short. 73 for now!

- Jim Romelfanger, K9ZZ

Rumor Control Department

Unfounded rumors about Federal Communications Commission plans to "ban scanners" are cluttering electronic mail and packet bulletin boards. The rumors *are not true*. Apparently what set them off was someone's hearing about, and misinterpreting, the FCC Notice of Inquiry in Docket 91-36 (which considers the possibility of RELIEVING RESTRICTIONS on the possession and use of Amateur Radio equipment in local jurisdictions having anti-scanner laws, through federal preemption).

Commenting on the rumors, American Radio Relay League Executive Vice President David Sumner, K1ZZ, said: "It's a shame that the FCC, in trying to do the amateur community a favor, gets subjected to a lot of abuse just because someone can't be bothered to check his facts before getting on the keyboard. This kind of rumormongering is just plain irresponsible."

- The ARRL Letter, 4/4/91

AMATEUR RULES SERVICE

The best way to keep on top of the ever-changing part 97 ARS is a handsome three-ring binder containing the latest, complete FCC rules from Part 97, and references to Amateur Radio rules from Parts 0, 1, 2, and 73. Plus, with the included one-year ARS subscription*, you'll stay current when the FCC amends the rules.

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* Minimum of six updates per year.

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Madison, WI 53711
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Wisconsin Nets Association

(Continued from page 4)

Wisconsin Intrastate Net/Late (WIN/L)

Ed Rice, W9NGP, Net Manager
W-126 Lang Road
Oconomowoc, WI 53066

Well, the first quarter of 1991 has gone by already. WIN/L totals for the first three months of 1991 are almost exactly the same as last year. All

our NCS slots are filled with reliable people who always show up. And, our voluntary method of providing someone to take thru traffic to 9RN, BEN, or WBSN nets the next day seems to be working well.

We are off to a good start in 1991 with only a couple of small problems: summer QRN and the lack of traffic. We can't do much about the former, but we *can* increase the traffic by originating some ourselves. We can send greetings and congratulations to far-away relatives and friends.

The totals for the first quarter of 1991 are:

QNI 619 QTC 180 QSP 126

Amount of traffic cleared: 70%.

73.

□

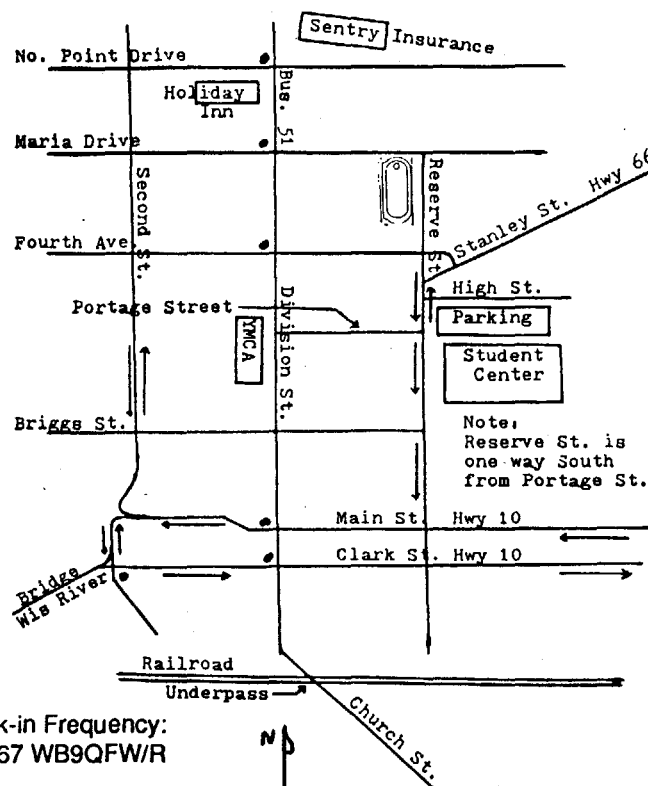
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- FCC Exams
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- YL Activities



Talk-in Frequency:
07/67 WB9QFW/R

Admission \$2

6:30 am - Vendors set-up

8:00 am - Swapfest opens

9:00 am - Resistive & reactive networks - (K9DB)

10:00 am - FCC exam session*

10:00 am - Packet synthesizer demo 1 (WD9BCH)

11:00 am - WAPRA meeting

11:30 am - Packet synthesizer demo 2

12:00 pm - Introduction to packet (WAPRA)

12:30 pm - Packet synthesizer demo 3

1:30 pm - Prize drawings

TBA - YL Activities

* Be sure to bring:

1. Original license
2. Photocopy of license
3. Check to ARRL/VEC for \$5.25

For more information contact:

Art Wysocki N9BCA
3356 April Lane
Stevens Point, WI 54481
715-344-2984

Yellow Thunder Amateur Radio Club

Duane Grotophorst, KA9HKL, Secretary

K9ODK
WB9FDZ

E5767 South Line Road • Loganville, WI 53943



The YTARC meets in the Baraboo Civic Center, 2nd and Ash Streets, at 7:30 p.m. Upcoming meeting dates are:

Wednesday, May 15	Room 14
Thursday, June 13	Room 24

Minutes of the April 16 YTARC Meeting

The regular meeting was held in conjunction with the licensing class introductory meeting. The following members and guests were present:

Betty Lobenstein	Mauston
------------------	---------

Jim Lobenstein
Charles Tilton
L.J. Hemmer, WB9TFJ
Sandy Hemmer, KA9VFW
Robert Hemmer, N9???
Raymond Matlosz
Paul Ward
David Owen
Don Clem
Tom McCaue
Matt Moore
Andy Kuter
Jim Decker, WB9UQT
Duane Grotophorst, KA9HKL
Marge Reppenhagen
Ken Ebnetter, K9EN

Mauston
Baraboo
Baraboo
Baraboo
Baraboo
Reedsburg
Reedsburg
Reedsburg
Reedsburg
Baraboo
Baraboo
Baraboo
Baraboo
Loganville
Baraboo
Portage

Harry Westlund, K9EHJ
Bob Sauvan, WT9Q
Bill Klinkner, N9KXX
Ann Klinkner
Harry Mayland, K9FFT
Marvin Kaiser
Ken Johnson, K9DZG
Harold Reif, KA9YQP
Steve Schwoegler, WB9RNL
Art Kleefisch, W9WSS

Baraboo
Sauk City
Prairie du Sac
Prairie du Sac
Baraboo
Wis. Dells
Mazomanie
Baraboo
Wis. Dells
Baraboo

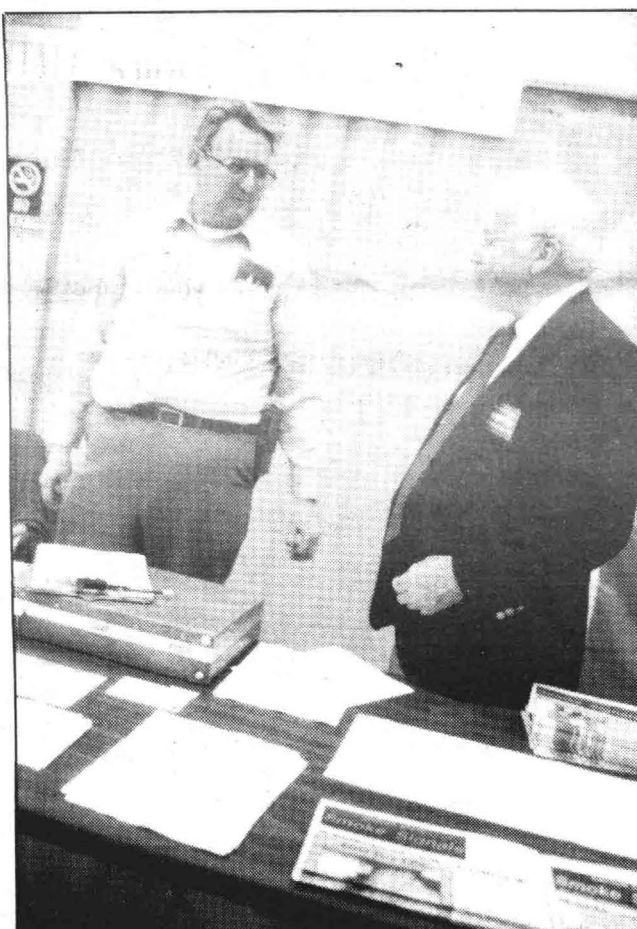
Art, W9WSS, and Steve, WB9RNL, gave a basic rundown of what the classes are and how we will run them, followed by viewing the "More Than Radios" and "The New World of Amateur Radio" videos. We then had a short question and answer session.

Art, W9WSS, called to order a short business meeting at 9:16 p.m.. The previous month's minutes were approved. No other new or old business items were discussed.

Buck Nite winner was Harry, K9EHJ.

Meeting adjourned at 9:21 p.m.

Duane Grotophorst, Secretary



YTARC at the Madison Swapfest

A number of members of the Yellow Thunder Amateur Radio Club attended the Madison Swapfest, and a few of those were captured on film by roving photographer/BSSS editor K9ZZ.

In the photo at extreme left, Art Kleefisch, W9WSS, of Baraboo (at left), checks the frequency and modulation of his 2-meter hand-held at the Ramsey Electronics display. Just behind Art is YTARC member Harold Reif, KA9YQP, Baraboo.

The photo at left shows Ken Ebnetter, K9EN, of Portage, chatting with American Radio Relay League Central Division Director Ed Metzger, W9PRN, of Springfield, Illinois. Ken is both a former vice-director and director of the Central Division. We should tell you that Ed, Ken, the table, the wall, and everything else in this photo were level. The photographer was, too. The camera, however, was *not*!



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All-Ham Shuttle Breaks New Ground in Space

By Rosalie White, WA1STO, Manager,
ARRL Educational Activities Department

Space Shuttle Flight STS-37 sported a number of firsts, including national wire service coverage and both fast and slow scan television transmitted on the amateur bands, the latter featuring pictures from a spacewalk by astronauts Jay Apt, N5QWL, and Jerry Ross, N5SCW.

"Ham Radio Network Links Students with Shuttle Astronauts," proclaimed Page One of the *Chicago Daily Herald*, a headline echoed in several dozen papers around the country.

Mission STS-37 - "the educational SAREX (Shuttle Amateur Radio EXperiment)," was launched April 5, and spent an extra, fifth day aloft when weather prevented a safe landing. The crew took advantage of the unscheduled day in space to unstow their SAREX equipment and make random QSOs for a few hours.

During this time, the orbiter flew over South America and South Africa and a number of hams were thrilled with their "space" QSOs, including ZR6AUJ, who was mobile. Pilot Ken Cameron, KB5AWP, rogered the QSO by saying, "We're mobile to mobile!"

Perhaps the most significant "first" for STS-37 was its all-ham crew, a fact noted by *The Wall Street Journal*. "The first ham convention in space" is what AMSAT president and SAREX net control operator Doug Loughmiller, KO5I, called it. Loughmiller shared control duties with Roy Neal, K6DUE, and AMSAT vice-president for manned space operations Bill Tynan, W3XO.

In addition to Cameron, Apt, and Ross, Commander Steven Nagel, N5RAW, and Mission Specialist Linda Godwin, N5RAX, rounded out the five-astronaut crew.

Thousands of students eavesdropped on Amateur Radio from outer space during ten group contacts - each with several schools taking part. On one of these planned activities, a linkup with 3,000 students in 21 schools was coordinated by Terry Redding, WB5LMJ.

FSTV from the Shuttle was led by Jim Steffen, KC6A; Andy Bachler, N9AB (of the Motorola Amateur Radio Club in Schaumburg, Illinois); operators at the Marshall Space Flight Center Amateur Radio Club, WA4NZD; and the Goddard Amateur Radio Club, WA3NAN.

Here is a short audio segment from the FSTV QSOs, taped by WB4APR:

KB5AWP: "Fantastic! We've got a window mount antenna up here, as you know, and we're still making great contacts. We're over Florida moving at about 25,000 feet per second. I see N9AB right now on video - good picture of an operator and some students. OK, picture's breaking up.... a big dish antenna!"

N9AB: "The big dish antenna is Goddard, WA3NAN, via the Naval Academy dish."

KB5AWP: "Okay, I've got some horizontal lines in the picture.... now it's better. Yeah! I've got color!! That's a great picture!"

Yet another first occurred when Cameron downlinked automatically "frame-grabbed" live pictures of the mission's space walks by slow-scan television on 2 meters, using Atlantis's closed-circuit television system. He also transmitted slow-scan pictures of Linda, N5RAX, to young people during the QSOs with schools.

Unfortunately, attempts to trouble-shoot packet and SSTV receiver problems were not so successful. And calls to MIR, the Soviet space station, resulted in only partial contacts.

A student in Rockford, Illinois asked Cameron how it felt to be launched: "Wow! During liftoff your body feels like it is being squashed a little bit as the solid rocket boosters and three main engines lift you off of the pad and right off of the planet."

As the mission wound down, Cameron described preparations for returning to Earth. "It's a beehive of activity here what with planning for re-entry, taking pictures of the earth, and plotting orbit."



Astronaut, Mission Specialist, and Amateur Radio operator Jerry Ross, N5SCW, peers into Atlantis' cabin, and is photographed by a fellow crew member. Ross was one of five astronauts, all of whom were ham operators, who flew on the STS-37 mission to launch the Gamma Ray Observatory, seen at the left side of the photo. Ross was in the shuttle's cargo bay with astronaut Jay Apt, N5QWL, in a successful EVA (Extra-Vehicular Activity) to manually extend the stuck high-gain antenna on the GRO.
- NASA photo

Steven, N5RAW, admonished students to "Take school seriously. Worry about your grades right now, no matter how young you are."

Larry Calvert, WA9OAO, teacher at Monroe Central School in Parker City, Indiana, said excited students asked him to start a school radio club. An unlicensed teacher in Missouri called ARRL during the mission for help in writing a grant proposal to get equipment for her third graders, after a local ham brought his equipment so they could listen to SAREX.

A SAREX shortwave listener from Maine wrote to ARRL to find out how to get a ham license.

ARRL instructor Len Casacalenda, KV1P, set up a ham demonstration at a school science fair, and let kids listen to Goddard Amateur Radio Club's shuttle audio retransmissions.

Recently, ARRL and AMSAT-NA asked NASA to continue allowing SAREX to fly aboard missions in 1992, on high inclination orbits which would afford better opportunities for QSOs to all U.S. hams.

And, NASA has approached astronaut Ron Parise, who was payload specialist aboard Columbia last December, to see if he would be interested in flying the STS-35 Astro astronomy payload once again. This flight could be planned for as early as 1992. Ron's response? "You bet!"

- The ARRL Letter, 4/18/91

Published by the American Radio Relay League, Newington, CT

For Sale

1977 20-foot Shasta Travel Trailer, completely self-contained, plus Amateur Radio H.F. vertical multi-band antenna, and Reese trailer hitch installed. Contact Vivian Ramage (XYL of WB9RBC) at (414) 295-3916.

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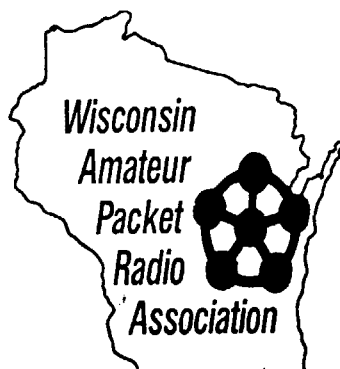
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THE WISCONSIN PACKETEER

Dan Servais, WA9AJW

Route 1, Box 816

Elkhorn, WI 53121

Steve Loeffler, WB9ZRE, Editor, 123 W. Oshkosh St., Ripon, WI 54971

WAPR Meeting at Stevens Point Swapfest.....

The 14th annual Stevens Point Swapfest is scheduled for Sunday, June 16, 1991 (Father's Day) at the University Center on the UW - Stevens Point campus. In addition to a fine swapfest, WAPR will be holding a general membership meeting. Discussions will include the current and future high speed links, packet hardware and software, and a report of WAPR operations and future plans. Watch for agenda updates on your local BBS.

WAPR Agenda:

- 10:00 a.m. - User seminar conducted by Tom - KD9FC
- BBS SYSOP meeting
- 11:00 a.m. - General membership meeting
- annual election of officers

Following general membership meeting will be a question and answer session open to anyone with an interest in packet radio.

RiverLAN / SouthLAN High Speed Link.....

At the RiverLAN Packet Association meeting on Saturday April 13, members voted to join the Minnesota SouthLAN group in establishing a high speed backbone link between Rochester, MN and La Crosse WI (Nodine, MN). SouthLAN had previously voted to establish a 9600 baud system and a system of Data Engines and Kantronics D4-10's. The La Crosse-Winona group agreed to establish a link using the same equipment or other equipment which would serve the same purpose. Members agreed to request donations from members and non-members of the Association in order to finance the project. Association Secretary Les Hittner - KOBAD will accept donations for the project. The high speed backbone link will be the first system established in the eastern Minnesota - western Wisconsin area and will hopefully lead to a full-blown backbone system throughout the Minnesota and Wisconsin area. Other presentations at the RiverLAN Conference held on Saturday included presentations by Duane Fruechte - W9HWQ on portable packet stations; Van Elston - WA9FIO on Digicom and Baycom; Les Hittner - KOBAD on general packet operation. Scott Sherratt described the DX Cluster system currently in use in the Midwest. Paul Emeott and Nels Harvey, frequency coordinators for Minnesota and Wisconsin discussed frequency coordination in general and specifically as it relates to packet radio in the two states. They fielded questions and discussion of issues related to frequency coordination. The next RiverLAN Packet Conference is scheduled for April, 1992 in the La Crosse Wisconsin area.

Kent - W9LZQ

WX Net on Packet?.....

I have an interest in weather spotting and in making information available to the National Weather Service. I have been exploring the possibilities of using packet radio to help with gathering data and have with the help of others come up with an idea for a way to allow it happen. MSYS BBSs have available a conference mode to allow real-time multiconnects. They also have available a "dx spotting" buffer that could be used to store weather information such as watch box information, severe thunderstorm and tornado watches and warnings along with Neenah radar data, cell location, intensity level and direction and speed of travel as well as other information of value to weather minded individuals. The conference mode is fairly easy to use and the few commands needed can be easily referenced by using a simple help command. If we can choose an MSYS BBS which can be reached by a major node with wide coverage and easy access to other nodes - such as WISLG, the coverage area of the packet system can be enormous. This would allow us to gather information from a large geographic area including northern Illinois, southern Wisconsin and northeastern Iowa and enable us to track potentially dangerous weather systems as they move into and across the area. I am currently looking for individuals who might be interested in participating in such a packet network. If this sounds good to you or you have any other ideas or suggestions I would be very interested in hearing from you. please reply to:

N9HNB @ WB9TYT.#MKE.WI.USA.NA

The severe weather season in the Midwest is now upon us and this would be a good time to test a network and get a good shake out. I am looking forward to hearing from kindred spirits.

Bob - N9HNB

CD-ROM REQFIL/REQDIR Server.....

Guy - WB9NET in Silver Lake, Wisconsin (Kenosha County) has added a CD-ROM unit to his BBS to enhance his REQDIR and REQFIL services. The online CD contains hundreds of megabytes of data including Amateur Radio programs, AM, FM, TV, electronic, programming, utilities, FCC Part 97 data and much more. In addition, Guy has the U.S. Callbook online. Try out a REQDIR, REQQTH and/or REQFIL message to his BBS and see what he has to offer via packet.

(ed note: In case you are not familiar with the REQDIR, REQFIL and REQQTH, read on for a quick primer. I'll use WB9NET and WB9TYT as the BBSs in these examples, however, several other

BBSs throughout the state are online with these services).

REQDIR: ***

The REQDIR (REQuest DIRectory) command is sent to a BBS to obtain a listing of the directories it maintains for downloading in that BBS's FILES section. REQDIR can be used three different ways:

SP REQDIR @ WB9NET
(message title area left blank)
Control Z (or/EX)

- requests the WB9NET BBS to return a list of all primary subdirectories in it's FILES section to the originating station at the BBS from which the REQDIR message was originally sent. The message title area is blank and no text is entered in the message. The message is ended using a Control-Z (or /EX).

SP REQDIR @ WB9TYT
WD9ESU
Control Z (or/EX)

- requests the WB9TYT BBS to return a list of all primary subdirectories in it's FILES section to the originating station at WD9ESU BBS. (The message title area contains @WD9ESU instructing the WB9TYT BBS to ignore the originating BBS and "drop ship" the requested data to the WD9ESU BBS). No text is entered in the message area and the message is ended using Control-Z (or /EX).

SP REQDIR @ WB9NET
/WAPR /AMSAT/FO-10 @KC9BK
Control Z (or/EX)

- requests the WB9NET BBS to return a list of all primary directories located under it's FILES/ WAPR and FILES/AMSAT/FO-10 subdirectories and return that data to the originating station at KC9BK BBS. Note that all delimiting data is entered in the Title area and no text is allowed in the message area. End the message with Control-Z (or /EX).

REQFIL: ***

The REQFIL (REQuest FILE) command operates in similar fashion to the third example given for REQDIR. REQFIL will return the contents of files that the requester specifies.

SP REQFIL @ WB9TYT
WAPR/FREQS.2 AMSAT/FO-10/KEPS.1 @N9BKJ
Control Z (or/EX)

- requests file **FREQ.2** in subdirectory **WAPR** and **KEPS.1** in subdirectory **FO-10** of subdirectory **AMSAT** to be sent to the originating station at **N9BKJ BBS**. Omit the leading **"/"** of each path. Once again, no text in the message area and end the message with **Control-Z** (or **/EX**).

REQQTH: ***

The **REQQTH** (**REQuest QTH**) command is used to search for callbook info on requested calls. At present, only U.S. calls are online. Calls must be separated by one space.

SP **REQQTH @ WB9NET**
N4EEV W1AJA KB6EQ
Control Z (or/EX)

- requests all callbook data on **N4EEV**, **W1AJA** and **KB6EQ** to be returned to the requesting station at the BBS from which the request originated. Again, no message text and end with **Control-Z** (or **/EX**).

There you have it, an easy way to obtain massive amounts of data via packet radio. Try it out (but please don't overload the system - HI!).

220 Link Added to **W9LZQ** BBS.....

Kent - **W9LZQ** has announced that a 220 hard-wired feeder link has been added to **W9LZQ** BBS in La Crosse in order to relieve congestion on the 145.01 network. The installation should provide faster service to users of **W9LZQ** BBS.

FREE IBM Packet Software.....

Introducing **BACKTALK-100**, version 1.0.0. Packet radio **TERMINAL** and **PBBS** software. (new features).

FEATURES: can be run on a 2 floppy system or hard drive.

- * **BACKTALK-100** is modular designed, uses small amount of memory.
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- * keeps a daily log (new)
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- * 40 or 80 chr. screen display, (great for sight impaired).
- * simple installation

REQUIREMENTS: **MS-DOS** any version
 2 floppy drives or 1 hard drive
 CGA card
 256k of memory
 Any **Kantronics TNC**
 (may work on others).

If you would like to try **BACKTALK-100** send a **S.A.S.E.** (disk mailer) and (1) 360k floppy to:

N3DFD - Joe Bosak
 912 Ramona Ave.
 Philadelphia, Pa. 19124.

440 High Speed Link Added At Markesan.....

A **WAPR** sponsored 4800 baud high speed packet node was hardwired and brought online April 22 at the **Green Fox ARC** site near Markesan. The 440 MHz node is part of the ongoing **WAPR** project to establish a high speed backbone network throughout the State of Wisconsin. Another node is presently being installed in Waupaca by **N9BKJ** and may be operational as you read this. These nodes are part of a path north to connect **Rhineland** and west to connect **Minneapolis/St. Paul** with southeastern Wisconsin on a 24 hour basis. At this time, **W9NNS** is working on the western part of the path and should have a very favorable status report at the **WAPR** meeting at **Stevens Point** in June.

WAPR MEMBERS WANTED

How would you like to get a **FREE** subscription to **Badger State Smoke Signals**??? Read up on all the current news & happenings in most of the clubs in the State of Wisconsin... Schedule of Swapfests, etc... Here is all you have to do... Connect to your favorite Packet BBS in the state & either send **D MEMBER.APP** or **D WAPR/MEMBER.APP** to get an application to join **WAPR**, or use the application blank below. (Make a copy if you don't want to tear up your copy of **BSSS**.) If your favorite BBS does not have this application on file, just send a note to **Carl, N9BYS @ N9BYS** requesting an application...

What do you get for your \$12.50 annual dues??? You will get a subscription to **BSSS** & you will also help **WAPR** help you.. **WAPR** is currently

helping finance the many nodes throughout the state to build & maintain a growing network. These Links are high speed links for the most part.. How will you benefit from this network?? The first and most obvious benefit will be the dissemination of mail & bulletins to all the BBS's throughout the state. But, it also supports & moves users live keyboard to keyboard traffic in real time... And probably the most important function will be to handle Emergency traffic in **REAL TIME** in the event of a Disaster anywhere in the State.. It is also being designed to cover large enough areas for portable Packet operations in the case of any kind of an Emergency..

We do need your financial assistance to get the job done.. Please help us to help you... We are also in need of folks to contribute time & technical support...

The next meeting of **WAPR** is planned for June 16th at the **Stevens Point Swapfest**...

Contact any of the following for more info...

Chairman	W9NNS , Fr Bill
V. Chairman	KA9EOK , Bob
Secretary	KC9BK , Jerry
Treasurer	N9BYS , Carl
Director	K9MLD , Joel
Director	WD9ANY , Bob
Director	WB9TYT , Dan

Thank you for your continued support...

TIME TO RENEW YOUR WAPR MEMBERSHIP

Most **WAPR** memberships will be expiring July 1, 1991. A membership/renewal application blank is printed below for your use. You can use this blank (A copy or a sheet of paper if you want to save your copy of **BSSS** for other uses.) to apply for membership as indicated above, or to renew your membership. Mail it in promptly or bring it to the **WAPR** meeting in **Stevens Point** on June 16, 1991. Your prompt renewal will save us to cost of mailing you a renewal notice.

Wisconsin Amateur Packet Radio

Membership Application

☐ **R** ☐ **A**

Name: _____ Call: _____ Home Phone: _____

Address: _____ City: _____ State: _____ Zip: _____

Home BBS: _____ Monitor Freq.: _____ Hours of Operation: Day: ☐ Night: ☐ 24 Hour: ☐

Station: Power: _____ Ant. Gain: _____ Height: _____ TNC: _____ Computer: _____

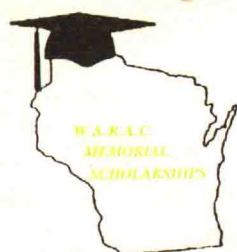
Station Capabilities: HF: ☐ 2M: ☐ 220 MHz: ☐ 440 MHz: ☐ Other: _____

I operate a Digipeater: ☐ Alias: _____ Packet BBS: ☐ Software Used: _____

Primary Interest in Packet: _____

Please return this form, **COMPLETED**, with your check or money order for \$ 12.50 to:
Carl Schumacher, N9BYS, 7740 Evergreen Street, Burlington, WI 53105

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Milwaukee, WI 53172

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November 3, 1991

Starlite Club, Hwy. 55 north of Kaukauna

HAMFEST INFO:
Don Baker
621 W. 7th St.
Kaukauna, WI 54130
414-766-3886

EXAM INFO:
Larry, KD9IA,
414-788-3823, or
Don, NB9J,
414-766-3886

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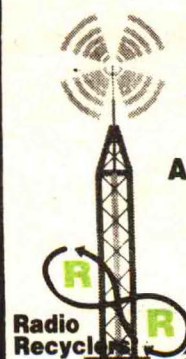
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